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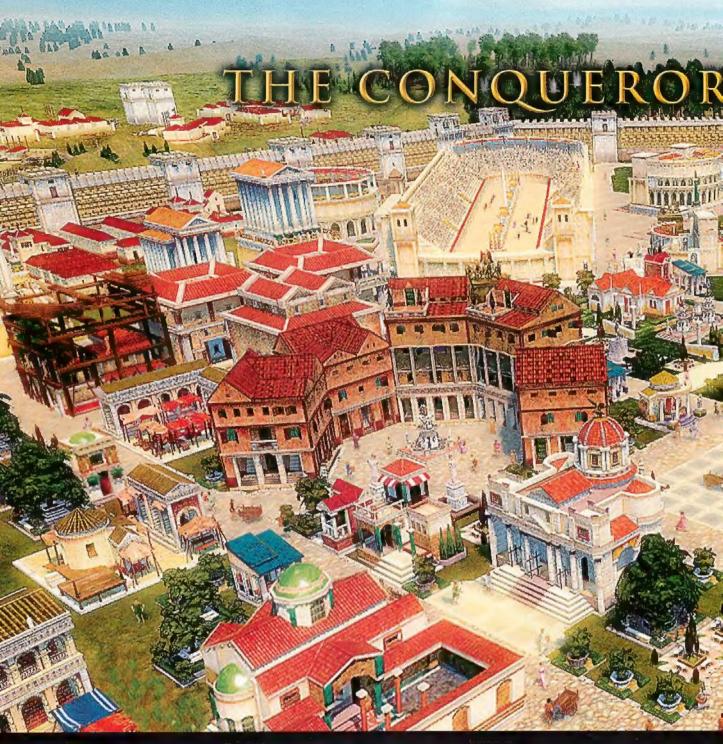








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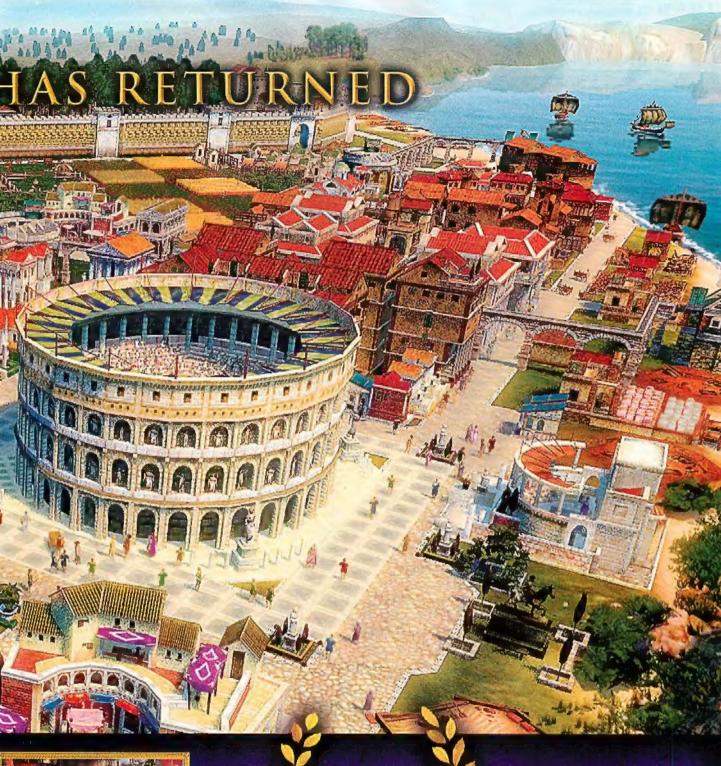


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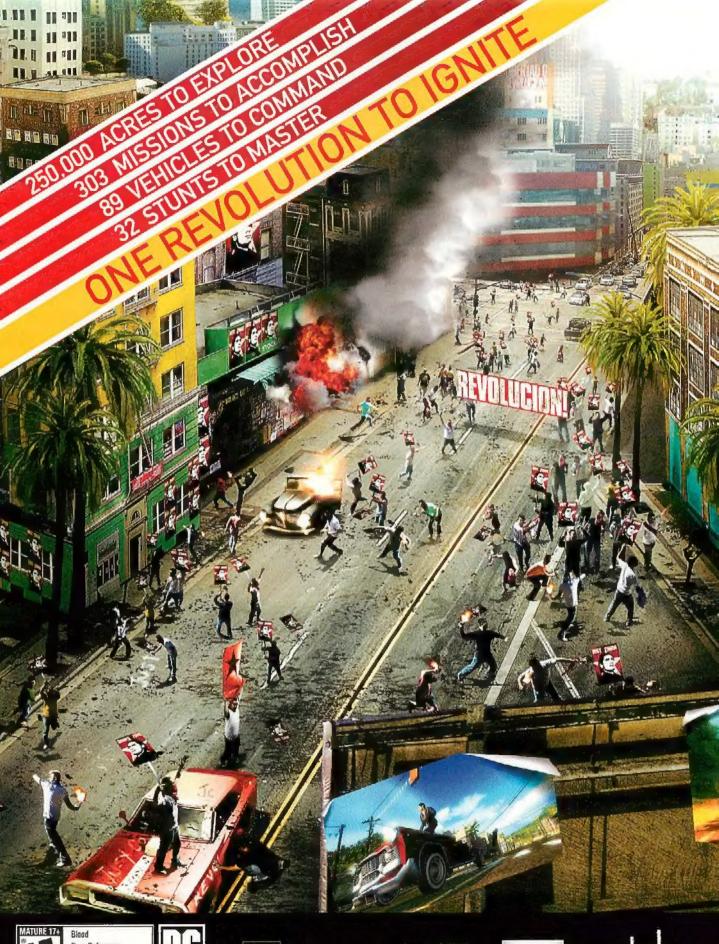
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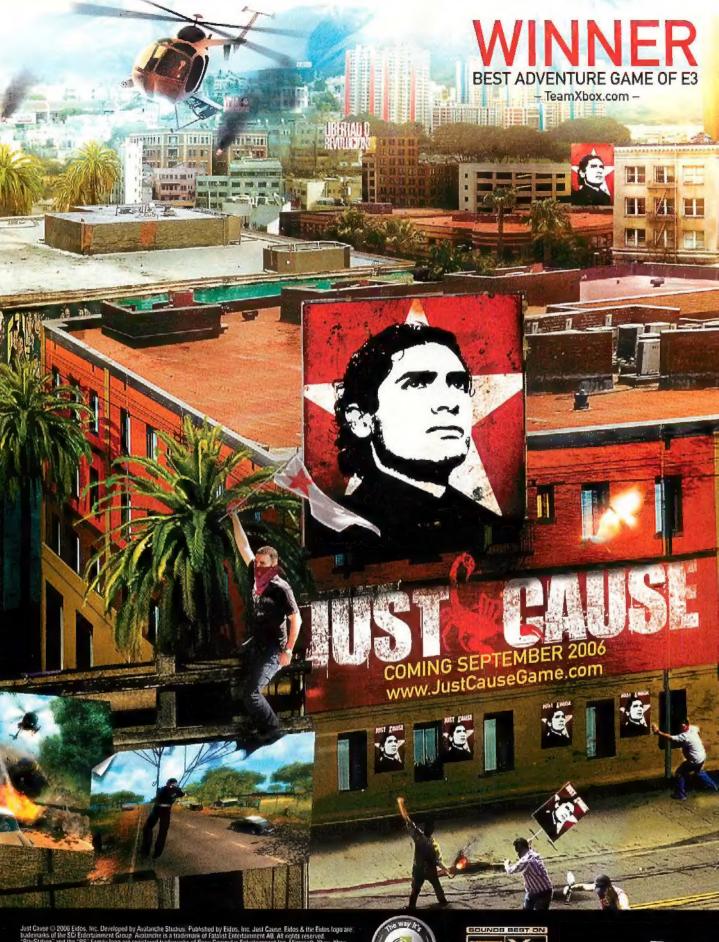












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OCTOBER 2006 ISSUE #267



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COVER STORY

VALVE

What's the deal with Team Fortress 2? How sick is Portal? What's next for Gordon Freeman in Half-Life 2: Episode Two? All great questions—you'll find some answers in this month's cover story!

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A whole feature on audio? Sounds good to us! Listen up and we'll tell you why good audio hardware makes your game performance sing.

STRONGHOLD STRONGHOLD

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COMING SOON! Dury strengt oldleg ends, com







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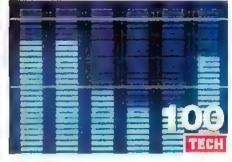
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To all you elitist bastards who insist on playing games in hard mode: Shaddup. To everyone who plays in easy mode. You're not alone









THIS MONTH ON JUP.COM



CGWRADIO.1UP.COM

Helio and welcome...to the weekly CGW Radio podcast! Crank the volume and hear, what the intropid editorial staff has to say about all filings PC gaming-related.

BOARDS.1UP.COM

Had arough of our nonsense? Come to our official message boards and let us knowl. 'CGW's official forum is a great way to get' in touch with the editorial staff and scores of hardcore PC gamers.

CGW-RYAN.1UP.COM

Taho a peek at one mild-mannered CGW editor's rants on walrd dreams, Pop Tarts, and all things. Sam & Max.

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.G. PHONE HOME

Missive from a wandering editor



Where am I again? Can someone remind me? It's not that I'm suffering from old-man memory loss...it's just that during the entire production of this month's issue I've been on the road. Even as I type this now, I am sitting on a plane: bound for good oil Austin, Texas, far away from the good ehip Computer Geming World in San Francisco, Californie

Why you should care about this-other than the fact. that we've always been close, you and I—is that my travels are directly related to the future of this magazine. which (as many of you already know) is about to change dramatically. And though we're still a couple months away.

from The Big Day, I figured it's not too early to start talking about it all official-like, just to make sure we're on the same page. If you know what I'm talking about and are already tired of hearing about it, then bear with me. it's not because I'm forgetful or stupid. I just care, dammit!

So the deal is this: In the December issue, CGW will transform, as if by magic, into Garnes for Windows: The Official Magazine. Rolls right off the tongue, doesn't it? Yeah. Well, you'll get used to it. And maybe we will, too. This is a huge deal—obviously, after 25: glorious years of CGW-but however traumatic or shooking the change may seem now, this is going to be a great thing both for us here and for all PC gamers. It's a play for the big leagues, a swing for the fences, it's an acknowledgment that PC gaming is here to: stay, that it matters, and that it deserves its own official magazine. And that magazine; rny friends, is this one right here.

Or at least it will be. You're about to read the next-to-last CGW. Enjoy itknow I will, since I wasn't around to participate. If it sucks, blame the other guys. And if it's great, as I suspect it is, thank my awesome staff-who always has my back, whether I'm in or out of town. Turn. the page, and let's see what's up. JEFF GREEN EDITOR-IN-CHIEF.

New Playing: Diable Hon my isplicit_{ed} 10Rccm Bleg: cgwjeft 10Rccm





SEAN MOLLOY.

,... I've moved acrees the country; lived in Asves agaziments; level jobs as an engineer and a movie critic; fost a cat; gained a dog; read 67 ocleace fiction nevels with embarrassing covers. New Playing: Chillardion M, World of Wercraft, Doed Rising (Max 380)
10/1000 Blog: cgwscan.10/1000



DARREN GLADSTONE SENION EDITOR (FEATURES/FECH)

...I've lived out of a duffet bag for invo invectors a surrer bay for invo menths (enoving from NYC to San Feunciaco on a wellin); wrote for a billion magazines; partiad with Ren Jeremy; hought a drink far Alyssa Milano. New Playing: Dead Rising (box 360). Dark Messiah, Company of Heroes 10Rcom Blog: cgw_gtows.10Rcom



RYAN SCOTT EDITON (VIEWPOINT)

... I landed my first job out of kigh school; paid off a car; moved out of my parents' house; whitessed two presidential elections; acted as aditor presidential elections; actes as son for feur different sections of CGW; attended five consecutive £3s. Now Playing: EVE Online 1UP.com Slag: cgw-ryan, 1UP.com



SHAWN ELLIOTT.

...I've earned a master's degree in creative writing; expanded from console to FG gaming; worked on: Electronic Gaming Monthly; free lanced for everyone also. Now Playing: Company of Heroes, Daik Massieh of Might and Magic 1UP.com Blog: cgwshawn.1UP.com



LOGAN PARR

... bought my first home; moved an from LucasAria; book back to Now Zealand; and, oh yeals, played conething like a zillon games.

New Playing: The Elder Scrolls N: Oblivion, Prey |UP.com Blog: legans_run.1UP.com



MICHAEL JENNINGS

...I've entered the exciting world of magazine publishing; found that world in wacky and unpredictable; went surfing in Baja for a while; resultered the world of magazines; saw all three LOTR mayies and Star Wars prequels, New Playing: Prey TUP.com Blog: cgw Jensings. TUP.com



SEAN DALLASKIDD ASSOCIATE ANT DIRECTOR

...Kovin Becon has been in mere than 14 movies—a stump, considering he's been in more than 40 since 1978,

New Playing: *Tenchu Dark Secret* 19Rcom Blog: the_dallaskidd.19Rcom



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LETTERS

REMEMBER KIDS, WE TAKE CASH, TOO!

LETTER OF THE MONTH









Let's cut the cow manure: August 2006 issue. Sam & Max cover story. Page 70. Photo of CGW staffers Ryan Scott, Michael Jennings, Darren Gladstone, and Sam & Max creator Steve Purcell. Well... I was just thinking maybe you could be friendly guys and send me one of those good "prototype" CGW covers that Mr. Purcell drew for this issue? I promise it will be the Ancient of Ancients! The Art fact of Artifacts! You have my word.

Alfred Chou

You mean those prototype covers up on top of the page there?

CONSOLE CONVERGENCE

In the article "A Separate Peace" from CGW #265, Matthew Guzenda of Crystal Dynamics states, "I can't really think of anything long-term that a PC will be able to do that a console won't," Does this mean I can look forward to my kids downloading porn on their Xbox?

Don Voge

Yes, but only after they've applied for variable-rate mortgages and punched that damn monkey a few times to win an iPod.

I was thinking on your August Issue's Radar topic of PC-console convergence. As I see it.



the console's only real advantage is that it is a fixed environment: Once a game works, it works on everyone's box. The PC, however, is a dynamic environment, in terms of both hardware and software. It seems to me that if you know that a PC is going to be gaming-only (and many families have multiple PCs, so that's viable), you could trim the OS to a subset of the bloated thing Windows is now, increasing reliability and decreasing resource-hogging. Without all the "features" that support actual productivity apps, Windows could be tight and sleek

So, how about using your bully pulpit to lobby Microsoft for a gaming-only version of its OS? Taking a proportion of PCs out of the available pool for spreadsheets and whatnot would probably raise PC sales (and siphoning PlayStation purchases away from Sony, since they're claiming they're building computers these days...and charging for one). That translates to more copies of Windows going out the door, too. Heck, maybe Dell would fund the development!

Think about what you're asking for: Do you really want to have to fork over the cash for yet another version of Windows? While there's an off chance that a games-only edition might speed things up and prevent a few crashes here and there, it certainly wouldn't be the "once a game works, it works on everyone's box" answer. Hardware's the real sticking point: With so many processors, mother-board architectures, videocards, soundcards, and drivers, it's impossible for game devs to design for every possible combination. PC

F***ING DAMMIT!

While paging through the August 2006 issue, I became acutely aware of the gratuitous amount of cursing that filled your copy. In my opinion, you have strayed over the line of what is—or what

gaming's atrongth and its weakness.

should be—acceptable conduct for a magazine of your caliber. What I'm referring to was most apparent in your Gladstoned column (Honestly, does anyone care how trying it is for this "modern woman" to be engaged to a gamer, anyway? How many females read this magazine?), as well as your "Overrated/Underrated" feature.

However, before we go any further, I should point out I'm not guiltiess in this matter, either. I admit I'm often prone to filing off many of the profanities you list. With that said, I try to refrain, as much as possible, from spouting profanities in the public agore—especially if younger audiences are likely to overhear. Now, I know you do refrain (for the most part) from stating the profanities explicitly (with the exceptions of "goddamn" and "bitch," both of which I consider unsuitable). But honestly, is there anyone capable of reading a sentence who doesn't know what "f**in" or "s**" means? Would any on-staff parents feet comfortable allowing their kids to read a column like Gladstoned?

Not only is the excessive level of profanity puerile and unprofessional, it also makes taking you seriously when you actually adopt a serious tone that much more difficult. After all, why should I even consider your moral stance on an issue like game piracy when you yourselves fail to exhibit a fraction of the restraint you're advocating? Once upon a time, CGW epitomized journalistic excellence, when it elevated itself above—rather than pandered to—the lowest common denominator

Trevor Tulninga

Sorry, Trevor. We f***ed this one up big time.

ASK, AND YE SHALL RECEIVE

Will you guys run a story in the next issue about Team Fortress 2 (which Valve says is coming with Half-Life 2. Episode Two)? A cover story, even?

Da

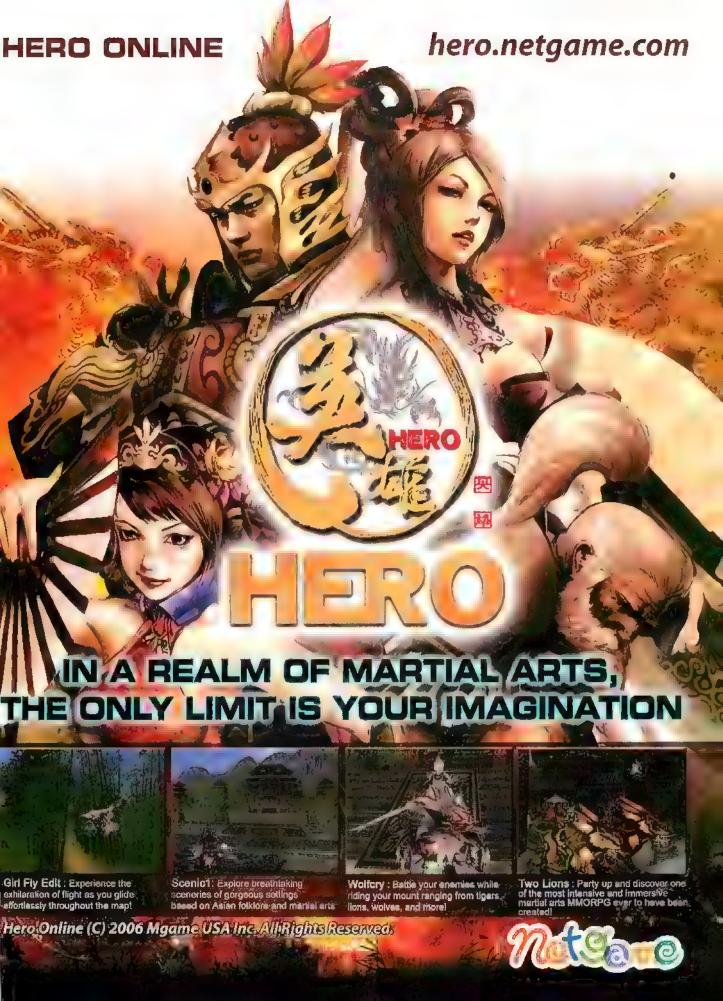
Get out of our heads, Dan. GET OUT OF OUR HEADS! Oh, and check out our cover story on all things Valve (Including Team Fortress 2) starting on page 70.>



Age of Empires II.
Druz3

Why does my Oblivion keep crashing? —college_boy When are we going to hear about Jeff [Green's] "tight pants" effect on the ladies? —Outugh with Flah

Kaffen





FORTUNE AND GLORY

Just want to say thanks for publishing one of my e-mails. It's gotten me some fame where I work!

Adam Ruhoff

You're welcome, Adam. Hey, look! Now you're even more famous!

CH-CH-CHANGES

You should ignore all those losers who complain about the changes to the Viewpoint section. Hey, people! If you're so mad, then stop buying the magazine! And do you really think that sending hate mail is going to help? That never works, I can see it now; "Hey guys, someone just threatened us with his unsubscription! Quick, we'd better change it back!" Readers like you are the reasons people who are original and like to think outside the boxlike, say, the writers and editors of CGW-are such a dying breed.

Lucas

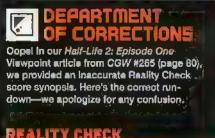
FARIRY CORNER

Our off-the-cuff commentary about the furry community on the CGW Radio podcast (cgwradio.1UP.com) a while back has kicked off quite the debate. Here's the latest batch of furry-mail. Keep 'em coming!

In response to Schwimmwagen21's letter about furries from CGW #265: The furry fandom's big on foxes, wolves, and-yes-rabbits. Sheep? Not so much. Furry fans are mostly individualists (or like to think so), and so most tend not to take on the persona of a herd animal unless. it has something distinctive about it. Furries have a reputation for being dumb, too-and the whole point of furry characters is that they're what animals would be like if they were sentient. Think "humans in funny suits" (which is what the fur suits are all about)

I wouldn't say that a "very small percentage" of the fandem support "adult themes." A big market exists for anthropomorphic erotica, though it turns out an even bigger one exists for nonadult anthropomorphic artwork...just like the market for other forms of art! Wow. who'da thunk?

In case you're not bored stiff by the topic, drop by Wikifur.com-its 4,400 articles on furry landom should be more than enough to make



IUP NETWORK	8/10
GAMESPOT	8.7/10
GAMESAY	4.5/5
IGN	8.5/10



you say. It's much better to stay calm and carefully inform them that they are perverts

Furries often wave their freedom of expression around as an "anything goes" pass to let them do whatever they want while avoiding criticism, but they constantly forget that it also applies to others. They often seak to silence anyone that opposes them or mocks them, completely missing the irony of doina so.

🦺 Furries will take special care to tell you how they have "won" an argument at every turn. They will also twist words and logic to appear superior. Remember: Furries can never

truly win an argument, since at the end of the day, when everyone goes home, they are still furries, and you are not. In this sense, a furry can never put forward a winning argument. A simple rebuff of any argument with "but you are a furry" is invincible.

There is no such thing as racism against furries, because "furry" is neither a race nor an ethnicity. Furries make a choice to join the furry community and condone its massive output of disgusting gunk

Marshall Banana





Alcohol Reference Blood Mild Language Sexual Themes Violence

rence May Change a Orline Play



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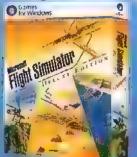


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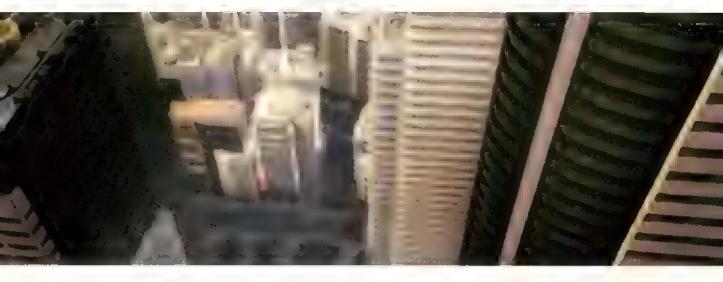


NCTUAL GAME SCREEK SHOTI





SUE 267 REWANDERSON



KANE & LYNCH DEAD

How to raise an underground army





PREVIEW Keos Studios' first-personshooter serves up warfere ust the way you like it.



Epic Games' vice president on UT2007, episodic content. and why Intel is ruining PC gaming for us all.

INTERVIEW



TRENDS Matchstick Men Peter Molyneux, Warren Spector, and other gamedesign brainiacs dissect artificial intelligence.



NEN





PUBLISHER: Mides DEVELOPER: 10 Interactive GENEE: Tiving-parson sheeter RELEASE DAVIS DAVIS

THERE'S STRENGTH IN NUMBERS, SO they say—unless those numbers shoot friends, won't follow orders, or perform otherwise egregious miscalculations of common sense. As shooting games grow beyond one guy and his gons, intelligent artificial intelligence becomes increasingly imperative—not for your loes, but for the allies you trust to act as assets rather than liab lities

So pray for IO Interactive's Kene & Lynch: Dead Men, a buddy-criminal flick cum squadbased third-person shooter that's betting the bank on allied brains. The premise: You play Kane, a "misunderstood" electric chair-bound mercenary who escapes his fate and finds redemption in the underground; at your side is Lynch, a doped-up murderer who might've done in his own family, and an A.I. flash mob to help out with firelighting

Rewind to 2003's Freedom Fighters, IO's "what if the Ruskles invaded America?" PC/Xbox/PS2 squad shooter. Three basic commands (attack, fall back, defend your position) directed atlies. with minimal fuss. "Freedom Fighters was a good training ground for us," says K&L game director Jans Peter Kurup, who describes K&L's squad-control system as a "simpler" and, at the same time, more tactically complex version of the already-effortless Freedom Fighters scheme.

When asked why more developers haven't copied Fighters' system, Kurup answers, "We aren't sure...perhaps people stick to the 'must add more features' approach and end up with something cumbersome."

"Squad members and opposing forces react to a range of stimuli," continues Kurup, "The most powerful inputs are perceived threat, fear, and firepower, It's crucial that A I, reacts realistically, and team tactics vary according to evolving situations—for instance, if the team is outgunned, it'll attempt to leverage suppressing fire in order to advance," immense effort, in other words, to make players feet like they're fighting the foes designers intend them to fight, rather than the desire to uninstall suspect software.

And that's why Kane & Lynch's next design decision is so surprising: When toose-cannon Lynch has one of his "episodes," he stops obeying your commands. While IO's aim is to add tens on to firefights, we question the wisdom of saddling players with a bats*** insane sidekick. What if he's, you know, really, really annoying? Isn't this the same as sanctioning everything IO's poor A.I. programmers devote themselves to preventing?

"We're working hard to avoid that," Kurup says. "The secret lies in your understanding of Lynch's state of mind so that you can sense the onset of an episode. Combine that with a large emount of testing and tweaking, and we aren't worrled."

THE C-WORD

While loony Lynch shares top billing with straight-laced Kane, the balance (at least in single-player mode) is obviously in Kane's favor. "The reason that Kane is given slightly more focus is that he is definitely the more professional and skillfully trained of the two," says Kurup, "We felt it would weaken storytelling and immersion to be able to jump between Kane and Lynch in single-player. Storywise, we're focusing more on Kane, but only marginally."

"We're trying to deliver an intense cinematic story and experience," says Kurup, invoking the c-word like so many other starry-eyed

IN A PERFECT WORLD

Kurup's wish list of stuff he never wants to see in a game again; "Loading screens," noninteractive sequences, bad A.I., lifeless characters, respawning enemies, infinite ammo, health packs, rigid training levels, and repetitive music." Make a mental note to see if any of these things make the cutin Kane & Lynch.- 🗟



gamemakers. However, when he lists IO's influences, we understand: "Man on Fire, Clear and Present Danger, Miami Vice, Black Hawk Down, Heat," the last of which evokes some particularly memorable firelights-and firelights, when all is said and done, are at Kane & Lynch's heart. "Great tension, real danger, excellent detail, and an epic struggle" define first-rate shootouts, according to Kurup, "A bad firefight is one without risk,"

The tension lies in Lynch's unpredictability, the epic scale in your league of squadmates, the detail in destructible environments, and the threat—aside from baddies and their bullets—in ammo pickups, of all places, "We're avoid-Ing illogical pickup placement," Kurup says. Squadmates play pack mule, and extra supplies are precious. Need a new rifle? Swap one with Skippy over there-but don't leave him defenseless, "Weapons, items, and ammo are only available in appropriate locations such as an armory or security office. We're making the resupply problem slightly more interesting," he teases, "but aren't ready to reveal how just yet."

Also adding to the big-screen vibe: no inventory-management menus to break up the action. "Menu screens and clutter can kill immers on," says Kurup.

FRIEND OF A FRIEND

Kurup extends the movie metaphor to Kane & Lynch's co-op play, "In a sense, it's like watching a film," he says. "You can watch a film by yourself and enjoy it, but it's better to share the experience with someone else so that you can discuss it and laugh about it later. That's what we're after."

Cooperative mode not only offers the only opportunity to take control of Lynch, it's also your only means of avoiding his off-the-meds fits. Rather than craft a completely separate twoplayer mode, Splinter Cell-style, IO is designing K&L's single-player content to support co-op play—a tough balancing act for the level designers. "The most important thing is to ensure that you can't just steamroll through levels in co-opmode," says Kurup. "We also have to make sure that levels offer alternative paths for players to try more elaborate flanking and pincer movements."

As for competitive multiplayer modes, IO an till talking, although Kurup hints at something more than dime-a-dozen deathmatching. According to him, "Competitive multiplayer is important to today's always-connected game communities, and we want to offer highly innovative solutions. Why make an average multiplayer game? People will play it for an hour and then go back to Counter-Strike or Halo." Know your enemy, the saying goes. And if you're Kane or Lynch, you'd be wise to know your friends, too. Sean Molloy







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Objectives beget new vehicles, weapons, equipment—and more objectives.



Kaos is keeping mum on special multiplayer modes, but promises Frontiines will stand apart from what DeLise calls "the typical bot matches found in most multiplayer games."

BATTLEFIELD SPONTANEOUS

Combat freedom in Frontlines.

PUBLISHER THO DEVELOPER Know Studios GENRE Pirat-Person Shooter RELEASE DATE Summer 2007

PREVIEW

GHOST RECON SENT YOU SCRABBLING for cover. Battlefield 2 flung you whooping from it. Frontlines: Fuel of War wants to pitch you somewhere in between: "Our alm is to balance fast-paced cinematic intensity with strategy," says kace Studios lead designer Frank DeLise, conjuring visions of chess meeting Black Hawk Down: "Players choose how to take on objectives—yo stealthy and find new ways to sneak using different roles and recon equipment, or choose a heavy load out and run a full-guns offensive."

West versus East in a hear-future equabble over oil, role-based combat specialties, working in foot squads or flinging vehicle fire—sound kinda like the same-of thing?

Frontlines' hook: "Each theater is roughly an hour of gameplay streamed in with no load-

ing," Dalies explains. "The theaters themselves have front lines with a series of spreadout, nonlinear objectives that you must
achieve to move that front forward." Whisking
you between war theaters from Afghanistan
to Moscow, Frontilnes lets you pick missions
and objectives your way. Sripe the enemy
team holed up on the far fill, filing grenades
at the nearby oommand HQ or just recon the
whole shindig—you tap your squad bots (in
slingle-player), you mark the targets.

"Capture objectives and you get new abilities, like equipment, weapons, and vehicles, which you'll then use to grab the next objective," says DeLise, explaining how you'll refine your soldier class by choosing loadouts and roles. "The loadout is your weapon choice plus secondary elements like smoke grenades and proximity mines. Your role, on the other hand, adds equipment such as remote-controlled drones—for

recon—or base defenses." DeLise says roles improve according to use and yield access to new abilities. A drone specialist might start with a passive recon drone and upgrade to one capable of assaults later in the game. And while role-playing combat ops aren't exactly naws, the team hopes a few of Frontlines' 60 next-gen weapons and vehicles will knock the socks off, conventional shooter tactics.

In the end, Delles wants Frontlines to convey a broad range of emotions and playing styles. "It'll always feel like you're in'a much bigger battle with lots of allies around you, fighting and changing their strategy based on the objectives you've achieved," he says. "Your squadmates will react like real soldlers, yelling for help and pointing out threats using a contextual battle-chatter system that brings the war to life." And with a little luck, it'll bring a well-worn genre to life, too./ Matt Peckham.

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GAMECHAZY TRAINING

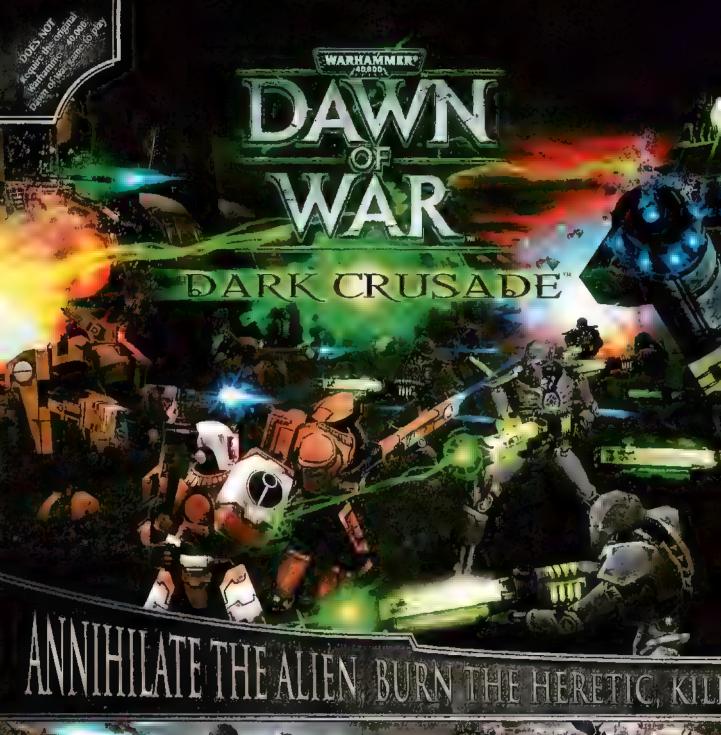
Schoolmarmish marketer calls retailer GameCrazy "the hizzouse; you know, the heezy" In this train wreck of an employee training vid.



VALVE VISIT

See it as the DVD extras to this issue's cover story: Go behind the scenes of Team Fortress: 2, Portal, and Half-Life 2: Episode Two.







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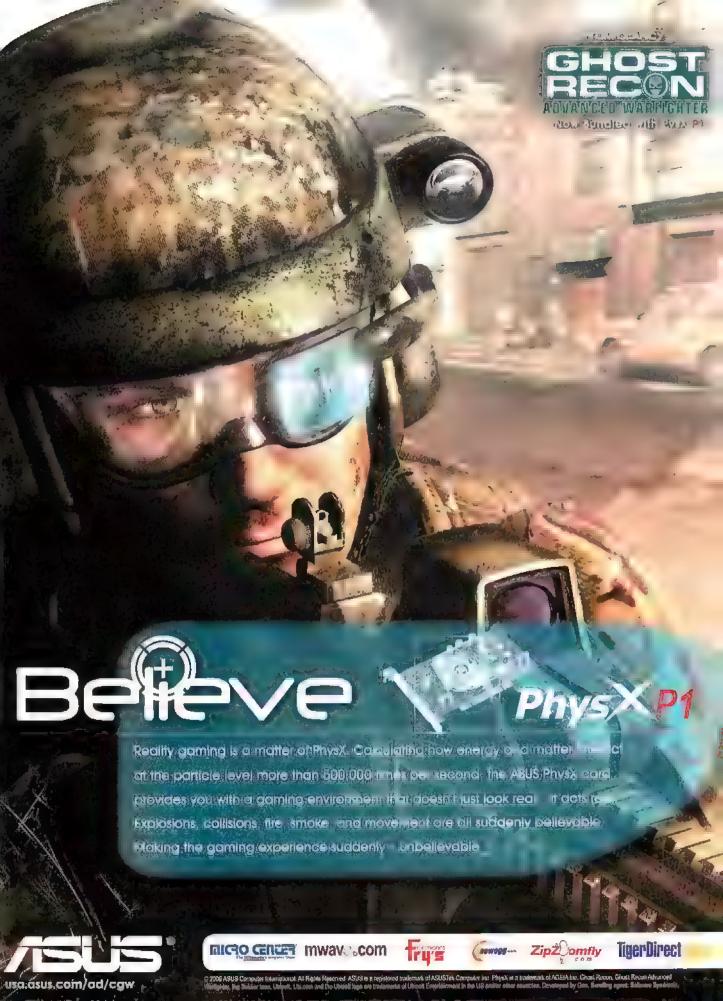
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COMING FALL 2006



INTERVIEW

CGW: YOU'RE DEVELOPING GAMES FOR just about every platform. Where do you see PC gaming now?

Mark Rein: It's at a crossroads. We're in a muluplatform world these days, and you'd think that the Xbox 360 and P\$3 would be good things for PC gaming. Next-generation games are expensive to make, and few publishers will give developers the money to make a blockbuster game for just one platform, so the PC seems like an obvious place to recoup some of the costs.

The problem, however, is this: The percentage of PCs sold that are completely inadequate to play those cross-pratforms games is rising rapidly due to the massive success of Intel's strategy to sell complete platforms to system manufacturers. This is causing the proliferation of Intel integrated graphics and is exacerbated by the trend of people moving to laptop systems as their primary computing platforms, It's the same problem-most laptops come with integrated graphics chips, which can't run the games targeted toward next-gen consoles. This leaves only the high-end PC gamer, and that's not enough of a market to support PC gamino as a thriving industry. In my opinion, Intel is to biame. For some reason, they've decided an \$800 PC shouldn't be as capable as a \$300 game. console, even though the cost to them to fix the problem is probably only a few dollars per PC.

The bottom line is that the majority of consumers unknowingly buy computers that suck for playing decent games. Intel could easily fix this, but they're not a graphics company, so it sn't a priority for them-even though, in my opinion, it could be one of the best things they could do for the ribusiness.

CGW: Wasn't this always a problem, though? People always need to upgrade to play the "latest and greatest" games.

MR: No. You didn't need a graphics card to run Doom II. Every PC in its day could play it. If someone tries to run Doom 3 on a computer with Integrated graphics today, they're likely to be so turned off by the performance—if the game runs at all-that they're pretty much lost to us. If the industry can't sell graphically compelling games to a large part of the PC audience, then eventually publishers might decide it isn't worth producing them at all. The decision to abandon the PC gamer will be a lot easier for publishers when Xbox 360 and PlayStation 3 Installed bases go up, the prices of the consoles drop, and developers start making second- and third-generation games that take greater advantage of the hardware. It usually takes 18 months or more to make a game, so that time is coming sooner than you think.



CGW: How would you fix it?

MR: Well, intel is doing a great job with the Core 2 CPU. They're back at the top of the performance pile, and we're happy to support them However, they need to provide a better graphics experience so that \$800 PCs can run games designed for next-gen consoles well enough so that people might get hooked and consider upgrading to higher-end machines. We're talking about Intel, though, so don't hold your breath.

One possible glimmer of hope is the recent merger of AMD and ATI. The combined company will be capable of selling the holy trinity of PC parts: CPU, GPU, and motherboard chipset. Unfortunately, Intel's Core 2 processor appears to outperform anything AMD currently makes. Maybe AMD will realize that they can offset this by selling manufacturers on overall system. performance, not just CPU performance. Perhaps they can mate one of the decent midrange ATI graphics chas with a decent-performing CPU They could kick Intel's butt in benchmarks that test combined graphics and CPU performance, forcing Intel to either develop a better graphics chip or buy one from Nyidla. Maybe this will finally wake up Intel. I can dream, can't 1?

CGW: It's a good dream, but let's talk games. Gears of War, specifically. It's coming on November 12 to the 360. What's the deal with a PC version?

MR: There is no PC version. This is a 360 game. The 360 blinders are firmly on our heads to make the best Xbox 360 game that we could possibly make and to push the 360 as hard as we can possibly push it. If we were trying to make the game on two platforms, it wouldn't be possible to achieve that Could Gears come to Windows? Perhaps someday, but not now.

CGW: Unreal Tournament 2007, by comparison, is coming to the PC and the PS3. That doesn't push the tech as hard?

MR: One of the important design goals of UT is to be the ultimate multiplayer game, even though the majority of players might not ever play it coline. One of the performance challenges with multiplayer games is that we have to provide good performance whether there are six guys on the screen at one time or 16. So we have to leave room in the design to ensure that, when the game fills up with players and the action gets intense the performance is still great

Conversely, in a single-player-focused game [ke Gears, we can really push to the edge of the platform because we know how many monsters are going to be onscreen in each scene, how complex each scene is going to be, where you're able to go. We don't know that with UT. People can be all over the map. And, with the transporter, they hop from one side of the map to the other in no time at all.

CGW: So how has this affected UT2007's development?

MR: With UT2007, we've scaled back the number of game types so that we can make sure

each one gets enough attention. We're concentrating a lot of effort on taking Onslaught, which was hugely popular in UT2004, and moving that forward to an even better, deeper game type.

With the upgraded Ons aught game, which we're currently calling "Warfare," we're definitely giving people a deeper experience with some cool objectives, more teamplay, and smarter bots. The bots are better teammates this time. They naturally communicate with you. You can actually talk to them and tell them what you want them to do.

CGW: That's great to hear. One of UT's strengths is its highly customizable bots. Are there many players who say, "Screw real people--I'll just play against the computer?" MR: To be honest, the majority of people just play against the bots-and that's the dirty little secret of UT. That's why we work so hard to make sure that the bots are really, really good. Not only do we want to have bots able to fill up servers so you can go online and have the whole experience, but we also want you to be able to have a great game expenence completely offine. And I can tell you right now, we're going to do a better job with the single-player. If it kills me, I will keep pushing for a real, traditional story-based single-player component to UT2007.

CGW: Single-player used to be a ladderedcombat contest. How would you do it differently for UT2007?

MR: In my opinion, we have the tools now in Unreal Engine 3 to make UT both a single- and multiplayer game. UT already delivers several styles of gameplay that, bound together with story, could produce a very fun single-player game. There are so many cool places in a game like UT-the variety is amazingly compelling. The objective-based nature of the new Warfare mode is also suitable for a story. I think we can find a way to satisfy the UT player who enjoys multiplayer yet still have a good story-driven single-player element for people who are new to the franchise.

Then there's online. If you do go online, there's so much more you can see, because the community takes our tools and builds all kinds of amazing things that we never even thought of doing. Now that we have UnrealKismet, our visual-scripting system, it's much easier to do things that were previously programmer-intensive. I think you'll see a lot more depth in the mods produced for UT2007-and that's saying a lot, because many of the existing mods for UT2004 are just amazing

CGW: Will the single-player game be on the level of a Gears of War?

MR: No, I don't see that as our goal, I think we can provide far more depth to the single-player than previous UT games, but we're not looking to make something as deep and intense as Gears. But I still think we can provide a single-player game that makes you think, "Wow, now that was a ride!" when you've completed it. There's still a long way to go to make that happen, so only>



"THIS IS ME, WORRIED ABOUT THE STATE OF DEVELOPERS WHO THINK THEY CAN SURVIVE BY DOING SOMETHING CRAZY."

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time will tell if we pull this off. But let's not forget that most of the people who played UT in the past already think it's a pretty good single-player game, even though what they're playing could be considered a simulation of online play.

CGW: Yeah, the Instant Action matches were always good for a quick fix.

MR: I played through the ladder, but since then, I'm like you. I pull up UT a couple of times a month for kicks; I just go into Instant Action. I choose a couple of levels I feel like playing that day, and I go off and play. That's my singleplayer. I don't really play it online all that much You know, if you sat a non-UT player down at the game and turned off voice chat, he probably couldn't tell if he's playing against bots offline or people online. With bots, you just start the game up, and they're there. The game puts the right number of bots in each level, depending upon what the designers intended for that level, and you can set their difficulty to your liking. I think most people are perfectly happy playing the game that way.

We want to provide a better experience with each new UT. We want to make the game more immersive, make it more fun, have cooler gameplay modes, add depth where people want it, reduce complexity where it makes sense, and continue to make the weapons fun. As long as we do that, it's a game that people will want to come back and play.

CGW: It was widely reported that you called episodic gaming a "broken business" because of, in part, the need to recycle content and the poor pricing scheme. Do you feel the same way about expansion packs that you feel about episodic games?

MR: You know the old children's game "broken telephone"? That's what I think happened with those comments. People wrote about it completely out of context. Here's more or less what I said: We see a lot of developers coming to us and saying, "My business model is that I'm going to make a little bit of my game, and I'm going to sell it online through digital distribution, and then I'm going to have the money to make a little bit more and a little bit more." And I'm thinking, "Are you insane?!" There's a lot of talk about this right now, but very little success in this area. What I was talking about is this idea that you can make a little bit of a game, and then make the money to build the next chunk of the game, and repeat that until you're rich. That's just crazy. And that's not what Half-Life 2 is doing. I mentioned in my speech that we have a perfectly good model for episodic content in place right now, I said that the gaming industry's already doing episodic content, and we've had it for years with franchises like Marlo, Unreal, Grand Theft Auto, Final Fantasy, WarCraft, and Half-Life—all these games sell episodically and do very well. The more successful ones have expansion packs, which is also a good episodic business model. These

models make huge amounts of money because the publishers can justify putting the marketing behind them.

CGW: You think that trying to end-run around publishers is a mistake?

MR: Yeah! Developers think, "Oh, I'm going to make a lot of money doing this." I'm sorry—you need marketing to sell games. Marketing is what sells games. What works for super-established brands like Helf-Life will not work for you. You need to get a publisher, you need to build a brand, and you need to be marketed.

Making your game, putting it out there, and hoping that distribution alone is going to do the job for you is just ridiculous. The scary thing is, even after I gave this speech, somebody came up to me with exactly that kind of proposal. I billed the speech as an audience-participation. event, and I had mics in the audience so that people could offer their options. One person supposedly said something along the lines of, "Well, you're just saying that because your engine's not suitable for that." And that's just not true. First of all, there are people with publisher backing doing episodic stuff using our engine already. They're developing the whole game and putting out pieces-which is a different philosophy from what I was talking about-and, hopefully, they'tlido fine. They'll deliver the pieces in small enough timescales that you won't get fatigued, you won't get bored of it and say, "Well, I'm just going to go play something else now." But in the megatime they'll get proper advertising budgets and marketing support

Epic has a perfectly good engine-licensing model for people who want to attack casual games, episodic games, online-only games, or things like Xbox Live Arcade. We charge very little up front, and then we get some part cipation in the revenue. So this is not an Epic interest thing. This is me, worr ed about the state of developers who think that they can survive by doing something crazy. I sell technology to developers and publishers, so my job is to ensure that the developers and the publishers are as successful as they can possibly be. So if developers die because they go into broken business models, that doesn't help me, and it certainly doesn't help them.

I'm trying to advise developers to be careful to not get sucked into the idea that digital distribution is going to be your savior and make you rich. You need marketing. And when digital distribution has the opportunity to be a savior and make you nch, guess what? The big. 800-pound-gorilla publishers will swoop in and suck up all the oxygen in the space. Nobody will find your game—it'll be relegated 10 levels deep on some distributor's portal because the big companies bought up all the spaces on the front page. That's just distribution acting like distribution—just like it does currently in retail.

CGW: So it still sounds like you're not personelly a big fan of episodic content as it is now, though, right?

MR: I'm not the kind of guy who's going to buy a game and come back and buy a little small piece of a game in six months and buy another little small piece of a game later. I'll lose interest. Within those six months, there'd be 500 other shiny baubles to pull me away, and I won't come back and play. How often do you buy a game, not finish it, and then go back and finish it?

I hear some people saying we should have a television-style model, but that's wrong. Television is free, and it's backed by commercials. And those commercials make the expenence free for you. Plus, new shows come out every week. Even The Sopranos, which has these big, long delays between seasons, still gives you eight or 12 episodes at a time to keep you interested. If they just gave you one every six months, they'd have a very small audience. Television also has more revenue streams than we do. They get a recurring revenue stream from subscriptions. kind of like an MMO. They can sell their shows into syndication, they can sell on l'Tunes, and they can package shows into DVD sets. Movies, similarly, can sell to network TV, syndicated TV, DVD, iTunes, and so on. My crysta) ball doesn't show these kinds of lucrative aftermarkets for games emerging any time soon /



"DIGITAL DISTRIBUTION (IS NOT) GOING TO BE YOUR SAVIOR AND MAKE YOU RICH. YOU NEED MARKETING." SOLDIERS FIGHT FOR YOU.

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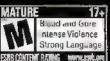
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Introversion's DEFCON wagers on no-win entertainment

PUBLISTAR Introversion Software DEVELOPER Introversion Software GENRE Real-time strategy RELEASE DATE September 2006

DBEALEM

THERE'S THAT SCENE IN THE 1983 movie War Games where Joshua, the blithe, creepy computer program that speaks in haiting, mechanized Donald Duckese, is instructed to play itself. The screen explodes in dazzling achromatic arcs as Joshuad runs all the possible (actually, 156) nuclear war scenarios, from predictable "U8/USSR (Irst. strikes no oddballs like "The autoversion" and "Gabon taxeover." The world's destroyed a hundred times over in an orgy of blossomina light, and all you could think wher where I play that? 1 4

It's shameful, then, that it has taken 23 years. for someone to capitalize on a concept so glaringly obvious it seems virtually fooiproof. "Often the best, most addictive games are the simplest, least gimmicky titles," says introversion lead designer Chris Delay, the brains behind hacker-sim *Uplink* and genre-mutent-Darwinia. "In reality, we often overlook or dismiss the most elementary ideas and pure? concepts for seeming, well, too simple." In Delay's view, you don't want to spend hours playing demos and tutorials and reading manuals before you actually understand what

vou're playing, "However," implicity can be appointed," he adde slyly. IDEECOA may be syno learn) but it's insaring in up to win.

you've seen WarGames, a quick glance at DEFCON's (DEFense CONdition) lovingly austere screens instantly betrays what you'll be up to. Journal with five other missile-sling-ing maniace, you play as the military honcho of a country (North or South America, Europe, Russia, Ásla, or Africa) moving quickly from brinkmanship to the total annihilation of your opponents' units and populations. On a flat. glow-lined map of the globe, you lockey units like siles and fighters within your territories, weaking radar coverage and arreaking subsas the DEFCON level escalates. The end of the world starts at DEFCON 5 and drops every five game minutes until you reach DEFCON 1...when the long knives—and. nukes—come out.

"We realized fairly quickly that if you have six players all fighting each other, it can end as a bit of a shambles," Delay says. To modulate "fastest-nuke-in-the-West," introversion added an Alliances system that allows players to team up. The catch: each individual's atili playing to an ind score of singular. "We take ou si reight rom the Cold War sand that atmosphere of paranola and suspense," explains Delay, describing DEFCON's in-game IRC server for public—or private chatter. He says whole conflicts are born out of simple misunderstandings, like alliance members shooting down friendly planes suspected of acouting the area for strike targets. "This leads to arguments in the chat channels," he adds. "Followed by skirmishes. at sea, followed by retallation, before finally the whole alliance collapses and everyone starts nuking each other."

Backstabbers rejoice, in other words... DEFCON sounds primed to cater to your basest urges. "For me, the really satisfying moments occur when an ally manages to catch me completely off guard and pults off the perfect betrayal," muses Delay. "It gives me confidence in the game design that such things are possible." He describes a staff test: where the game had essentially ended (as far as he knew), but, in the space of a few seconds, his ally (codeveloper Gary Chambers) surfaced a load of subs right off his constline and started, as Delay puts it, "nuking the hell out of my cities." It was perfectly timed, hesays, and there was absolutely nothing he could do about it save sit back and laugh. Betrayals like that can cost you millions 🦠 of lives and take you from first to last place on the accreboard," he adds bittersweetly. "Those subs had been traveling to that strike point for the entire game—he'd planned it from the very beginning."/Matt Peckham.



WE TAKE OUR CUES FROM THE COLD WAR ATMOSPHERE OF PARANOIA AND SUSPENSE.

-CHR'S DELRY, LEAD DEB GNEA

GROUND UNITS	DESCRIPTION			
SILO	Missile allos have two modes; launching nuclear warheads and shooting down incoming ordnance and units. Switching between modes takes time, and a silo is inoperative during a switch. Firing a silo reveals its position to all players.			
AIRBASE	Launches fighters and long-range bombers.			
RADAR DISH	All units extend radar coverage but dishes have the most, providing excellent coverage although they are defenseless.			
SEA UNITS				
SUB	invisible to conventional radar, but with no radar themselves. Substitution nukes or torpedoes from any ocean location. They are strong against battleships. Can use sonar to destroy enemy subs, but that gives away the sub's location to other naval units.			
BATTLESHIP	Antiship unit used to detect enemy units and to destroy opposing units without use of warheads.			
CARRIER	Mobile version of a land airbase used to launch fighters and bombers. Can carry depth charges to use against sul			
AIR UNITS				
FIGHTER	Good against enemy aircraft and to acout out enemy territory.			
BOMBER	Can carry one nuclear warhead each but are slow and vulnerable to attack.			
NUKE	Booml			





d Orange and green navas ships trade incending by the property of the property



A Timing is parameunt. For example, siles: that are placed in attack made (triangles) can fire missiles, but they lese their ability to defend against incoming attacks.



Africa wigs out. The yellow triangles indicate launch detections off the current view. "Africa would be wise to stop its attack and change all its silos back to defense mede," says Arundel.

MHOW SHALL I NUKE THEE LET ME COUNT THE WAYS

"We have some interesting alternative game modes," says Delay, calling them "DEFCON with a twist." Take Speed DEFCON, for instance. "It's the same game but it runs at 20 times real time fixed, so it's pretty heotic. And we also have a truly crazy mode called Diplomacy where everybody starts on the same team. It becomes an exercise in making sure you aren't the first group target."

Then there's Office Mode, Introversion's bid to keep you entertained at work without getting you fired. "Yeah we're pretty excited about the Office Mode," says Delay. "We just thought it would be cool if a group of work colleagues could fire up a game in the morning, playing over the LAN to see them through the tedium of the working day." Say your boss turns up unexpectedly: just press ESC twice and shazam—instant minimize to system tray."

The team's even planning a leaderboard and tournament at release as a free patch. "We have loads of ideas," adds Delay. "This could be just the beginning for DEFCON."



ULTIMATE ME SNIPER

The ABS* Ultimate M6 Sniper posted a: in the I'C World Test Center World Bench 51 PCWORLD January 2001

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COLUMN

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DUDE; MY HEADLI'M NOT FEELING SO HOT RIGHT NOW: I KNOW THAT I HAVE NYQUIL capsules sitting at the back of my medicine cabinet somewhere. Ah, there they are, What's wrong with this stuff? It's not working. Let's see what the box says...expires,... in...1998?? Yeseh, that can't be good. Suddenly I—hey, why is Abraham Lincoln in my room wearing a hat made out of meat? Whos. This is messed up. I think I'm gonna ile down for a minute. Maybe you should come back in a bit. Go on, get out! I'm serious. What's that? You're not leaving without some freebies? All right, you asked for it. The Freelouder.

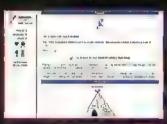




Nintendo may have Super Smash Bros., but that game doesn't address the existential questions that plague me: What happens when Street Fighter's Ryu drops shoryukens on a Battletoad? Whohandles shrooms better, Mario or the Prince of Persia? Can anyone: @comments that come to mindfrom Dragon Ball Z outpunch Spider-Man? Most importantly, though: What were the designers smoking when they decided toprossbreed 8- and 16-bit games? Whatever it is, I want some!



OK, it's confession time; I love. pissing off people on message boards. Especially the CGW message boards (boards.1up.com), where I have many personas and names. I just can't help it. I type: the dumbest, most obnoxious usually without any facts to back up my idlocy-and take great pleasure in watching people freak out. Imagine my joy now that someone's made a first-person shooter game based on that



How the hell does one describe: Kingdom of Loathing? The best way is by telling thee of my quests. as a level 2 pastamancer (yes, as ... in magical pasta): I've traveled the land slaying bunnies, quoted: Sloth from The Goonles, and paid for new armor with stacks of meat. If I were to make some sort of "WTF? of the Month" trophy, this game would earn it. Go to kingdomoffoathing.com and see for yourself. It's a stick-figure art connoisseur's dream.



So many Jokes ask the questions "Why did the chicken cross the road?" Aside from a couple perverted versions, nobody ever tackles the bigger mystery: "How'd he pull it off?" Finally, someone has. The game may be a bit on the short side-and really, it'd be nice to see more than just one stretchof road-but Chicken vs. Road is a fun little graphic adventure. Until you get that damn "Raindrops Keep Fallin' On My Head" songstuck in your brain...

DEVELOPER'S DESKTOP What games do they want to play?



BRIAN REYNOLDS the big huge brain believe the Huge Games, has challenged gamers for years with RTSea like Rise of Nations and, most recently,

Rise of Legends. He sn't ready to spill the beans on the next thing to Rise, but Reynolds did reveal what he'd love to play again now that he has a chance to breaths

ARCHON

"The game that got me through the early and mid-50s. It captured the magic of the femous Star Wars 3D-chess scene and combined strategy with shoot-em-up action in a way we said dom see these days. Of course, you had to play on the original Commodore 64; I carried around special joystick to challenge all comers.

ULTIMA VI

This game made me want to develop computer games for a living. It had such a huge world, the inhabitants all falt at least a little suive (they would go throughts bit of a daily schedule, and they'd be somewhat aware of your reputation), and the transitions betwaan environments were darn seamless for the day.

EMPIRE: WARGAME OF THE CENTURY

"Converted from an old PDP-11 game, this was the first strategy game to deploy the 'cities and units' paradigm. It got a little hard to manage loward the end (the number of units grew geometrically), but it definitely had that flust one more turn addictiveness

CIVILIZATION II

OK look I'm ir gene designer and progremmer, so if I'm going to get trapped on some

kind of a desert island, I'm for sure going to take one of my own games and tinker with it! And lid better teke one from back in the day. when one programmer could mostly manage the code. These days, booting up Cly in reminds me of that golden are when Windows 95 first came out, DOS was dead and buried, and the graphics and soundcard people hadn't yet led us down the garden path to odver incompatibility hell-the modern equive ient of autoexec bet hell.

WORLD OF WARCRAFT

"I haven't seen my level 50 priest in a year now. But when I typed /played and saw how many months I'd been playing this game (and these are 720-hour months, not the wimpy 166-hour 'man-month'), I realized that this one game may conceivably have accounted for more than 50 percent of the time I've spent playing computer games in my whole life.

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STAR UNIVERS

PUBLISHER; Segar DEVOLOPER: Sonis Tea GENRE: MMO Action-RPG HILLEASE DATE: October 100

get no boost for your multiplayer character before going online. No extra gold, no sweet superweapon for your newly victorious avatar. Nothing. Nada. Zip. Just a finished story. and a cinematic pat on the back, Sega's spin doctors call it getting two games for the price of one, but c'mon—that kind of talk may fly in consoleville, but PC games as ent as Titan Guest allow you to take your oleyer character online.

ish: Buy the game and you get ingle-player game—but the It'll cost you extra. Segs. how much, but bank nonthly fees for Final nonth): Considering to Guild War (which)

ome will miss playereally, though, can't out huge boss battles, naters in PVE combat, rep players coming ? Team Ziff hiked to at a day transfixed by n exclusive first taste-/Darren Gladstone



IN CHARACTER

The unique races are highly customizable with anime flair. Choose from being human. (bo-ring), Newman (elvish-looking magic users), CAST (robots), or Beast (meles moristers). Will you be able to resist the temptetion to whip up a fembot hottle like this?



As in games like Gulid Wars, this specie station is one of the central hubs where you meet other players—or just stroll through the spacey megamali and resupply. And-big eurprise—everything looks a whole hell of a lot sharper on the PC than on consoles,



Every race has a special secondary super-power-up move. The CAST's Standard summons heavy weaponry, while beasts (above) mutate into monsters.



SUCRIBS

Whether you reninding intercetting objects inform on or want to of der stuff from the space, age IKEA, PSU left you furnish your pad—or that stook your oldest with some sharp new thread



DAME OVER, MAN

The 20-plus dungeons in the game are loaded with larger-than-life boss battles. Like with Sparky here. Don't forget to switch to a firstperson perspective when trying to snipe enemy weak spots.

GLADSTONED

Shooting the messenger and The was

WORK WITH ME HERE!

SELLOUT WHORE CORPORATE shill. Disgruntled readers have called me all these names (and a couple of other creative ones that I can't ist here). That doesn't bother me, However, a new trend is brewing that makes me violently yomit blood: Some game companies have this screwed-up notion that editors really are sellouts whome, and shills. It's time for me to equash this rumor before it gets too out of control

Screenshots held hostage, info doled out in preclous droplets-magazines deal with this kind of stuff this every month. To be perfectly honest most public-relations managers de a kick-ass job and "get it" (seriously, guys, much lovel), but when somebody thinks he can buy coverage—boy, you just ticked off the wrong nerd.

Before I signed on with CGW, I was a "real" reporter. Writing about videogames for a living didn't make me suddenly forget every lesson i learned in Journalism school, and that's why I've decided to present, here, a few passages from my PRIJournalist Relationship Operating Manual. Fol low these simple rules, and I promise I won't tose you out the window when you come to my office.

RULE NO. 1:

Never use the phrase "stay on message," or I will slowly choke the life out of you. Or cancel the stoy. You have an agenda—I get that—but I have my own angles as well, and delivering the message of your marketing department len't one of them. ium not on your payroll. God help me, I have questions—both good and stupid—and I will ask them.
If I wanted a blind recitation of facts, I would've just asked you for a FAQ to cut and paste.

RULE NO. 2:

Developers are people, not products. If I ask for an interview with a developer, I may actually want his opinion on topics besides his game. That's right Sometimes I might want to hear what an industry luminary has to say about a big-picture topic. If our interview doesn't fit an agenda or deliver a

specific product message," please don't shut down the conversation before it even begins, Read ers: Thumb through

this leave; and I'm sare you'll line some mysterious hole where we would've loved to get the thoughts of a particular developer. but couldn't—thanks to those shadowy people in the background who allently squash good interviews without seeing the big picture.

RULE NO. 31

Be honest. This is kind of a no-brainer for life in general. If you're talking to snother magazine. website, ham-radio operator, whatever—just le me know up front, because it affects my story. It won't hurt my feelings, really. And I swear that I won't bite your head off. Much.

WHAT CAN I DO?"

Just because you're reading this column, don't think I'm gonna let you off the hook. I need your help. In our never-ending quest to deliver a topquality magazine every month, we're slaves to getting the latest testy screenshots and info That means we're at the publishers' whims. Do something about it. Call them on it. Call us on it. Demand more out of all your news sources. Send some e-mails. Make some calls, Stick your nead out the window and scream so the whole world can hear that you're mad as hell, AND YOU'RE NOT GONNA TAKE IT ANYMORE!



DE HONES I THIS IS KIND OF A NO-BRAINER FOR LIFE IN GENERAL

Darren Gladstone Damen is still taking his court-ordered anger management classes. If you feel the same way, e-mail

darren gladstone@ziffdavis.com.

THE GOOD. THE BAD. THE UGLY OF TOBER 2008



THE GOOD GOOD RIDDANCE.

Several major publishers recently pulled out of Los: Angeles' annual E3 Expo-

(the gaming industry's biggest trade event), citing astronomical costs with little benefit. This. prompted E3 showrunner Doug Lowenstein to pull the plug on E3 in its current form...which... itself prompted a collective sigh of relief from industry insiders, newly free from the media. circus that E3 had slowly degenerated into.



THE BAD

GOODBYE, E3 EXPO!

True, E3 was a wretched hive: of soum and villainy...but If you managed to wade:

through the piles of freeble-seeking fanboys, scantily clad booth babes, and loud, obnox-; ious displays, some genuinaly cool stuff awaited. E3's dismantisment particularly hurts smaller developers, as it means one fewer opportunity to get their products in front of a few thousand eyeballs.



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E3 MEDIA FESTIVAL?



From the official E9 website (e3expo.com): "The new E3 Expo will take shape over the

next several months. As currently envisioned, it will still take place in Los Angeles, described: by [the] ESA as a 'great and supportive partner helping to build E3.' It will focus on press events: and small meetings with media, retall, development, and other key sectors." Sounds like PRdamage control—we'll believe it when we see it.





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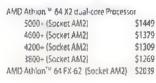
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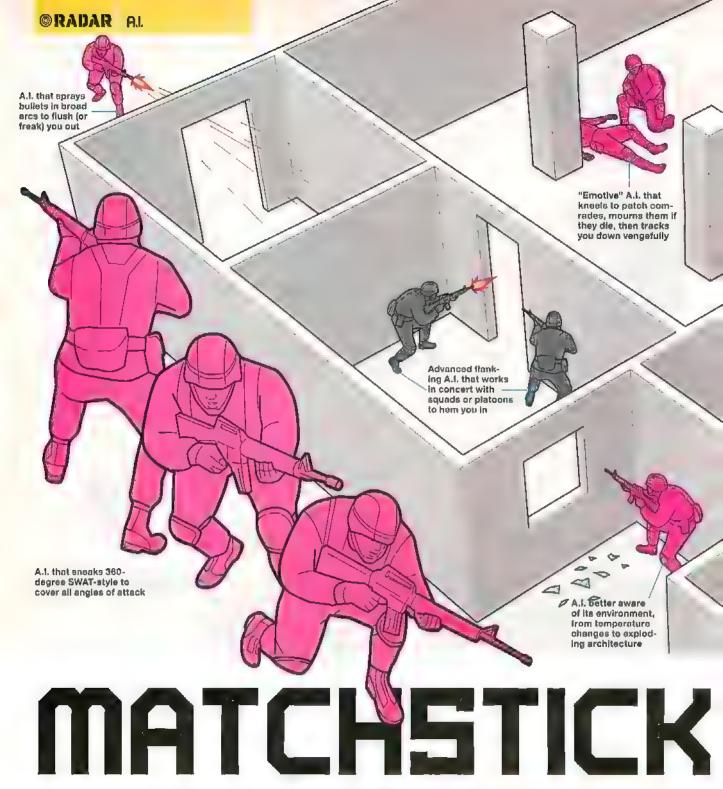
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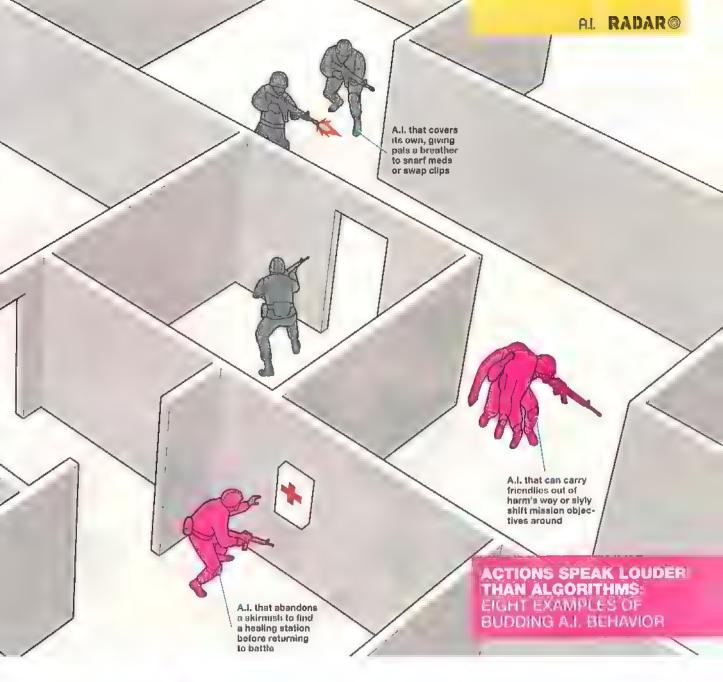
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Six industry insiders disabuse our A.I. illusions BY MATT PECKHAM

phildia valabe

YOU KNOW THE DRILL: YOUR OPPONENT HAS X-RAY vision and always peeps your hidden network of bases. Or: You've discovered the other team never punts on fourth and 10. Or: Monsters pop out from behind stiding doors and go "boot" Or: You can smack Trader Bob around on Monday, but you return Tuesday to find him healthy, beaming, and huggable. On the other hand, we call it "artificial" intelligence for a reason: It's not the real deal, caveat emptor, pay no attention to the algorithm behind the curtain. In hopes of shining a bit of light on these commonly ignored issues, we've assembled six industry bigwigs to hash out the how, what, and why of videogame A.I.>



MEN

BRAIN TRUST



Peter Molyneux Managing Director, Lionhead Studios The Movies, Black & White, Fable



Warren Spector President and CFO, Junction Point Studios Ultima Underworld, System Shock, Thief, Deus Ex



Brad Wardell President and CEO, Stardock The Political Machine, Galactic Civilizations



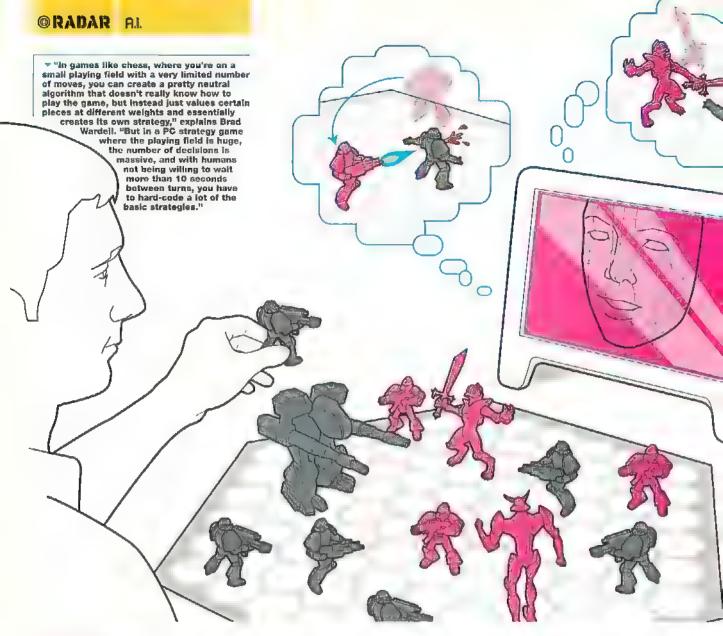
Todd Howard Executive Producer, Bethesda Softworks The Elder Scrolls: Daggerfall, Morrowind, Oblivion, Fallout 3



Mikko Mononen Senior Technical Designer, Crytek Crysis



John Abercrombie A.I Programmer, Irrational Games BioShock



CGW: First off, is game A.I. really "artificial intelligence"? Or is it just a gameplay convention?

Peter Molyneux: There's a misconception that A.I. In games is real. Ninety percent of the time, it's not, as reat A.I. would be far too expensive in terms of processing power.

Warren Spector: I hate to be a philistine, but I'm in the camp that doesn't even think about it. I'm sure this is partly because I'm not a programmer responsible for coding this stuff or an academic getting paid to think about it-I'm only concerned with the player experience. As long as the A.I. accomplishes the goals of the game and offers a compelling experience for the player, you can call it whatever you want.

Todd Howard: [It] depends on the audience. At Bethesda, we define A.I. as intelligent behavior that the actors-NPCs, creatures, et cetera-engage in. So we're looking for real intelligence, on-the-fly decision making, strategies, and so on. From the consumer's perspective, A.I. is anything a character does. So scripted events, animation, and so forth all form the A.I. to the player, and that's the most important part-conveying the Illusion of good behavior.

Brad Wardelf: For the kinds of games we make, I take the heunstic point of view. My job is to get the computer players to play that particular game very well. This means developing strategies much like a human player, then incorporating those various strategies into the game.

CGW: What are some of the challenges and/or advances occurring in game A.I. development at the moment?

WS: Every game I've been involved with in the last decade or so has had to incorporate A.I. that does more than figure out how to attack the player more efficiently, "This time the A.J. takes coverl" just doesn't cut it in a game where the NPCs may or may not be your enemy, based on your in-game choices. And "Look at our amazing group-tactics A.I." is irrelevant when we don't know how the NPCs in a given scene feel about you-whether they love you, hate you, fear you, want to talk to you, don't care about you.... And let's not even

talk about what happens when players can change their environment dynamically. The A.I. challenges of a game where you can fight, sneak, or talk your way past problems, in a world where there are many ways to get everywhere you-or the NPCs-might want to go... well, those are some interesting challenges.

Mikko Mononen: Creating the illusion of life. Imagine a watch. The watch may function even without its case and hands, but it's rather useless as a timepiece. A simplistic version adds the minute and hour hands and 12 dots to mark the hours. A more detailed and interesting implementation could add more markers, another hand to show the seconds, another for hundredths, maybe even the days of the month. These things don't reinvent the watch, but they do increase the level of the detail and feedback to the user. A.f. actions without feedback are perceived as chaos by the player, just springs unwinding and gears rotating. A simple behavior with proper feedback can look believable, intelligent, and complex, but complex behavior without enough feedback looks chaotic and random.



IF CHEATING AL WILL ALWAYS BE NECESSARY, BUT IT **CERTAINLY SEEMS TO** BE NECESSARY NOW.

> -WARREN SPECTOR TUNCTION POINT STUDIOS

BW: Faster CPUs have changed everything. We have fantastical advantages in computing power. Master of Orion came out in 1993, running DOS. That's the age of the 486. Back then, they didn't have the luxury we have today-i.e., having the computer player play by the same rules. It could literally conjure units out of thin air based on the difficulty level. One of the biggest advantages our computer A.I.s have always had is that they're multithreaded; the computer A.I. generates its strategy in the back ground while the human player is taking a turn In an age of dual-core processors and Hyper-Threading, that means we have far more CPU cycles to compute strategies.

CGW: Is A.I. cheating for the sake of challenge, or to overcome behavioral limitations, or just as a shortcut, necessary by design? WS: I don't know if cheating will always be necessary, but it certainly seems to be necessary now. Given that the goal is to challenge players in pleasant, entertaining ways, not to re-create human behavior, I suspect we'll be proud cheaters for the foreseeable future. If you're a programmer and you think I'm wrong about this, feel free to drop me an e-mail. And a resume Oh, and a demo-

MM: When the environment is highly detailed, the description of the world is always going to be different for the A.I. and the player. Creating an artificial perception system that's loosely based on how humans sense the environment can make the A.I. act more like real humans, but there's aways a constraint on how complex this model can be. In games, the greatest limitations are production time and processing power. Allowing the A.I. to partially "sense" the player through an obstruction, for instance, creates the impression of an A.I. behaving like a savvy human would in the same situation.

BW: Up until the "intelligent"-tough-difficulty tevel in Galactic Civilizations II, the A.I. gets no advantages over the human at all-and, in fact, is penalized in most of the difficulty levels. As for how we go about implementing our A.I., the way we are able to do this revolves around two development techniques. The first one is having a multithreaded computer A.I. That means that while the player is taking his turn, the computer players are generating their turns, it's not that our A.I. is better written than other games; it's certainly not. It is that our A.I. has a lot more time to calculate. Human players are a lot slower than the computer. By the time the human player has finished his turn, the A.I. may have had half a minute or more in the background to calculate. The second technique revolves around being reasonably good at strategy games and incorporating those strategies into the computer All, Techniques like hurtling, stranging, rushing, harassment and other strategies that are wellknown to hardcore strategy gamers are integrated into the computer A,I as best we can

John Abercromble: There are certainly situations where a human can recognize something that an All never will—or at least not as well—so you have to provide hints for the A.I. The hints aren't cheating, and they might also allow the All to make mistakes as a human would, like searching in the wrong direction. But giving the A.I. the exact focation of a player they can't see seems wrong to me-that's too much information. There's a balance between what the A.I. should and shouldn't know, and the player has to believe that the A.I. should know it

CGW: Some have suggested building a world-class A.I. that doesn't need to cheat to beat the best human players is possible right now, but that development time and costs don't justify it. Your thoughts?

PM: It's possible, but is it desirable? A.I. must be balanced with game experience and that means that even the simplest academic A.I. has to be refined and Iweaked in the name of the game being good. It should be possible for a game to focus on learning aspects of A.I. at its core.

TH: I actually don't care if it cheats -it's not a big goal of mine. I want the perception that it's not cheating-that is, the perception that it's making logical choices.

BW: I've often said the same thing online when some top strategy gamer buys Galactic Civilizations II, [defeats] the "intelligent"-best noncheating level-A.I after a few weeks, and then posts that the A.I. isn't challenging enough The cost of good A.I. increases exponentially, but the quality only goes up linearly. Creating an unbeatable A.I. can theoretically be done, but to what end? Of the 10 percent who can beat the best noncheating A.I. we make, how many of that 10 percent actually mind having to turn up the difficulty to the point that the computer players get another 5 percent to 20 percent in resources per turn? And is it really worth doubling your A.I budget to satisfy that small percentage of unhappy users?

CGW: How can games better implement nonconfrontational or nonviolent A.I.? Is this limitation responsible for the need to have monsters of some sort in most every game? WS: Man, I wish I knew how to answer this question. My "thinking" is that our ab lity to create compelling noncombat A.I. is pretty puny The issue is creating characters that behave in ways that, given the context of a game or scene, elicit an appropriate emotional response in players. Take the guns away, and we lose the most easily elicited emotion-fear-and we're left with...not a lot. How do we make progress in the nonconfrontational space? Beats me-maybe someone in a garage somewhere is solving the problem even as we speak, if I knew how to solve this problem-and it's a huge problem for gaming, one that is really holding us back as a medium of expression and communication-I'd be making a very different kind of game.

TH: In terms of nonviolent interaction, I certainly think Oblivion has a bunch, though we haven't gotten away from time-stopping dlaloque trees vet

CGW: Soren Johnson of Civilization fame estimated in 2002 that A.I. was something like 2 to 3 percent of the total development cycle, and that it was usually integrated only at the very end due to lack of money and time. Has this changed in 2006?

PM: We have two projects currently under development-Fable 2 and another unannouncedand we've had an A.I. team working on these projects from day one. I've since unearthed a fascinating feedback loop between our A.f. coders and game designers—the A.I. team is, in fact, alerting the designers to some unexpected but cool situations which are a result of A.L., as opposed to the designers asking the A.I. team to construct specific situations.

WS: Wow, 2 to 3 percent? That doesn't reflect my experience at all, it didn't reflect my experience even back in 2002. We've always had multiple, dedicated resources working on A.L., basically, from the start of the project to the end I think all the highfalutin tech stuff ups the difficulty a bit, in that we can create more dynamic, more deeply simulated worlds. But, really, until people start making different kinds of games, the difficulty only goes up incrementally.

TH: We spent an enormous amount of our dev time on the Radiant A.I. system in Oblivion It ended up not only being the character A.I., but the basis for how a lot of our quests worked. It > also takes a lot of CPU time, so the more power we can get through the hardware, the better we can make it.

BW: There are reatly two issues here. First, it really depends on the developer and what priority they put on computer A.I. and how complex the A.I. needs to be. Secondly, what dual cores and SMP do is allow computer players to be more effective with less work because they can brute-force calculate better strategies.

CGW: How do you convince gamers to stop and pay attention to your "cool new A.l. feature" as games become increasingly free-form?

PM: A.l. is a bit like game physics—both are coming of age. A few years ago, we all got very excited when we had the technology to throw boxes around in a realistic way, and of course, gamers' reactions were sort of "so what?" Same thing with A.l. Our first attempts were pretty primitive, and it's only now that we're seeing more sophisticated A.l. appear in games. Stil, consumers don't care if some technical advance is hard to pull off or ground breaking—they're only concerned whether new techniques make a game seem more realistic.

WS: There's an assumption in your question that players should care about A.I. They should have about the experience you're providing—whatever it is. The overall experience of a game has to be a lot more than "acceptable" or you're doomed to failure in the marketplace. A.I. is just one component toward reaching the level of quality necessary to succeed, and how important a component it is will vary from game to game.

MM: There are several design principles in Crysis where we tackle that problem. They all allow the player to observe the A.I. reactions without engaging in combat. The first we call "venl-vidl-vicl." The idea is that you're able to stowly seduce the A.I. into combat and observe their actions. The result is that you have the possibility to outsmart rather than outgun A.I. opponents. The second principle involves giving the player a chance to try each situation multiple times, thus prolonging the A.I. "lifetime" and allowing us to better "show off" its sophisticated behaviors.

CGW: With the whole "virtual pet" craze, isn't there a sort of sideways argument that gamers already react favorably to more lifelike A.I. for its own sake? Say, more mundane behavioral "coloring," like NPCs that take pee breaks?

WS: This is a huge question? First, we almost always self our audience too short in gaming—don't even get me started on that rant. Second, we need to move past the idea that "lifelike" is the highest ideal game A.I. can aspire to. Finally, if your game benefits from NPCs taking pee breaks, have 'empee—don't worry about the audience.

BW: You're definitely touching on a larger issue in the game industry, and that is, as it has grown, the [people] who make the big decisions are increasingly nongamers. Look at the copy-protection debacle we have now. People practically have to give skin samples to the game before they can play it. Similarly, I think many studio heads these days don't see how much people care about having a good single-player experience, which means competent computer opponents. They don't see that it does drive sales, Our average gamer is around 30 years old. They're smart, sophisticated people who want to be treated with respect and intelligence. The problem is that computer A.I. is rarely budgeted enough to make the difference it could make. Computer A.I., after all, doesn't make a good screenshot.

TH: Actually, I find the audience picks up on the small stuff and reacts positively to it. One of the little touches we put in *Oblivion* was to have the shopkeepers "keep an eye on you," while in their stores, and it is subtle, but lots of people eventually noticed. If we made the guards pee, I assure you people would care—and pick their pockets when they did so.

CGW: Can we expect to see more usercontrolled A.I. customization in future games? Or does this jeopardize developer controls? WS: I don't think this is an either/or thing. I think you'll see a little of both. Some developers, in some games, will allow players to tweak the A.I. explicitly Other developers, in other games, will create adaptive systems that allow characters to learn from the player and adjust their behavior accordingly. It all depends on a game's goals.

BW: There's a general recognition that writing "smart" computer A.I. is very hard and expensive, and in many games, not a good investment. In those games, it makes sense for the developer to provide tools and extensions that a low the fan base to enhance the A.I. behavlor to increase the lifetime of the game for the hardcore fans.

JA: There are games where tweaking the AI. behaviors from an options menu might be appropriate, especially In sports or other games where the player is working with other AIs to accomplish a task. From a designer's perspective, though, those variables should be under the hood, and the AI, would adapt correctly to each situation to fit the player's style.

CGW: With all the research into academic A.I., can game A.I. benefit from academic/game A.I. convergence?

PM: We're inspired by what the academic approach is, but because of the restrictions of the gaming world, we have to reinvent what academic circles pioneered decades ago. One of the biggest differences between academic A.I. and

games A.1. is that we have a perfect rule-based world in which our A.t. , can fit.

TH: Like many things in academia, it often has very little application in a real world or real game environment. Fuzzy logic is pretty basic, as are some of the others, so you see these things sprinkled in game A.1, where it needs it. I don't see games ever going the full "A.I." route as defined by academics.

JA: We have this great behavioral system here at Irrational that was developed as an academic project for modeling simulations of groups of characters. Nearly everything we do in the game A.I. involves using this system, and the ability to layer behaviors and rapidly prototype simplistic behaviors has made it an invaluable tool for designing and developing the A.I.

CGW: Thinking about game A.I. and the next decade or so, the Magic 8-Ball says....

PM: Some of the likely events are emergent A.I., which is becoming a significant force because it's so central to a game's premise, A.I. gives us the ability to support custom characters in games not only visually but psychologically.

TH: It's pure development time, so the bigger budget games are going to push A.I. forward more than others. Procedural animation is one technique that you will really perceive in games soon that'll make you believe the characters are behaving better. I know that's purely a visual, but don't discount that aspect when it comes to "lifelike" behavior.

BW: I think in the next five years we'll start to see macrounit coordination in computer players. I think we'll also see options in games that allow more CPU to be dedicated. to computer players, just as we have options for video displays. Let the guy who wants a more challenging game with a powerful system get full use out of it. I also think you'll start to see A.I. players learn between games. This happens organically in online games, but computer players presently start from scratch each session, After that, I think we'll see A.I. become increasingly conversational. The drive for immersion will mean having RPGs and MMOs that have NPCs that act like real characters. And from there, those technologies will find themselves back in strategy games where you're playing Diplomacy 2016 and you're truly negotiating with the A.I. Germans in an online game, and [CGW editor-in-chief] Jeff Green-from his resting home-will be cursing profanities via chat for ganging up on him.. again

CGW: Descartes said, "I think, therefore I am." You say?

PM: I play with him, therefore he thinks!

TH: I prefer Socrates: "I drank what?"

BW: I think beyond a set scope, therefore I am.

WS: Wow, Descartes in an interview about games? I'm too blown away even to answer!/



-TODD HOWARD, BETHESDA SOFTWORKS

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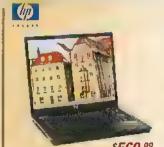
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PUBLISHER: Microsoft DEVELOPER ACES Studios GENRE: Flight Simulation RELEASE DATE: Winter 2006

PREVIEW

"WE'RE ADDING GAMING ELEMENTS TO Microsoft Flight Simulator X," says ACES Studio lead designer Paul Lange, signaling what may be the most significant change in the Flight Simulator series' 24-year history, "inorder to give players something to do beyond just flying over the countryside."

In the past, Microsoft designed its Flight Simulator games as pure civilian-flight sims made for hardcore virtual pilots who revel in spending carefree hours simply flying from one airport to another. Previous Flight Simulator deviteams have been so focused on "as real as it gets" that they've never tasked someone with enforcing traditional gaming features such as objectives and missions. That's why the presence of Lange (whose résumé ranges from 1996 first-person shooter Powerslave to 2003's Microsoft Combat Flight Simulator 3) is such a departure. His expertise is gaming, not aerospace engineering, and his goal is to make Flight Simulator X attractive to people who would normally fall asleep trying

to figure out how to work a Cessna's Garmin GPS system.

FSX's new hook is a powerful, simple-to-use mission-creation module used to craft the 50 missions that will ship with the game. The builtin missions range from the relatively simple (search for a missing camper in snowy mountains) to more challenging, frantic tasks such as rescuing workers from an exploding offshore oil rig. ACES has already provided the mission creator to a number of third-party developers. so a large number of community-developed mission packs should be available the day FSX is released.

This attitude of cooperation toward thirdparty developers is another radical departure for Microsoft, which has, by its own admission, historically treated this group with indifference at best. While dedicated community developers were once forced to craft hacks and find holes in the code in order to make their creations work. Microsoft now actively provides software development kits (SDKs) to third party developers. The company has even created a new community development team lead posi-



Skim Seattle's skies in a TV news chopper.

tion (currently held by Brett Schnepf), charged with making FSX as third-party accessible as possible

But none of these changes fly in the face of what's come before. Flight Simulator X continues the series' tradition of absolute realism and the trend of increasingly exact virtual landscapes and city skylines, accurate aircraft models, and little details that make the world feel more alive. Wildlife roams the countryside, cars drive on the streets below, and fuel and luggage carts scramble around the airport as you taxi in. Despite Microsoft's friendlier attitude toward third-party developers and newfound focus on "the game," Flight Simulator X is still hardcore at heart.

Jeff Lackey



NONE OF THESE CHANGES FLY IN THE FACE OF WHAT'S COME BEFORE

· Salar reder

66 IF YOU LITTLE BASTARDS MAKE ME MISS ONE MORE MINUTE OF LAW AND ORDER WITH YOUR FIGHTING I SWEAR IM GOING TO COME DOWN THERE AND SMITE YOU ALL



**I wanted to make my own engine, if only to prove I could do k," says maker Carry Newman



Newman is "talking to Valve software about like Facewayard over Steam."

Garry's Mod maker goes 2D

PUBLISHER TOD DEVALOPER Faceburch Studios GENHE Side-scrolling shooter RLLCASC DATE TOD

DREVIEW

IS HE OR ISN'T HE? GARRY NEWMAN, is at a kind of career crossroads where modmaking merges with professional programming. "When people ask what I do, I usually dodge the question and say 'salf-amployed.' The problem with telling people you're a developer," he says, "is that the next question is, 'Oh, yeah? What games have you made?"

Surely all-in-wonder Garry's Mod, which is about to go from for-free noodlewere to polished e-tail product on Steam's digitaldelivery pipeline, counts for something. So too, does Newman's commitment to the crafts "I love Black & White-style software, where you build stuff to do stuff. I suppose program ming itself is a supernerdy game that only a 🗟

few people dig playing." Still, Newman's an emerging gamemaker of another stripe, indifferent to market pressure and next big things. Though willing to hear out admirers and hash. It out with detractors, he makes what he wants, when he wants, the way he wants (although we suspect he'd say he's more doofusthan iconoclast).

On his monitor at the moment; sidescrolling shooter Facewound. "The idea," he says, "le 'Counter-Strike meets Mario'—2D' gaming with modern graphical effects-and the control scheme is the standard WASDand-mouse combo. In the tradition of Mario. we don't have much of a story...actually, we don't even attempt to tell a story. It's all zombles and guts and guns. Except I'm English and we have a somewhat limited familiarity.

with weapons, so it's mostly Counter-Strike stuff with a few exceptions—chainsaws, Molotov cooktails, miniguns. I'm trying to stayaway from power-ups, but when you blast; something, a bunch of green a*** flies out. You can collect it and use it to purchase new. weapons." You read it here.

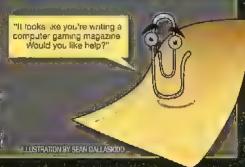
As its moniker implies, Facewound is a stupld/funny affair through and through—perhaps the product of too much time spent patrolling. somethingswipi.com's untamed and often sidesplitting spoofs. "We try to make ourselves augh along the way," Newman says, "Whyaren't games funny anymore? We're always adding funny things as we go along—probably pretty hardcore humor, though...pedophiles: and whatnot. We're not censoring ourselves. If it gets a laugh, it's in."/Shawn Elliott

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SIDEKICK

OVERRATED: CANNON FODDER Sony—hordee of nameless, faceless grunts that catch bullets with your name on them don't make you feel like you're part of some bigger battle

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Turn off safe search and visit Newman's Facewound development blog at www.garry.tv.

FUB. SHER: 2K Games DEVELOPER: Irrational Games GENRI. First-Person Shooter HELEASE DATE, 2007

PREVIEW

ASK IRRATIONAL GAMES PRESIDENT Ken Levine about BioShock's Electronic Entertainment Expo accolades and he'll' throw out everything from "awesome" to "mindblowing." Scrapping with bruisers like Crytek's Crysis and Maxis' Spore, BloShock went on towin 17 awards (including several "Best of Show" honors). "It was like being prom queen," says; a giddy Levine. "We're not used to being prome queen. I'm still wearing my titura."

Still teasing an amorphous 2007 release date, irrational's multiplatform hybrid sci-fi FPS remains strouded in mystery. We know it's set:: at the bottom of the ocean in a mythic 1960s. utopian art-deco megalopolis called Rapture, has loose ties to writer/philosopher Ayn Rand's controversial meganovel Atlas Shrugged, and that it takes place after a horrible mutagenici war involving Rapture's fanatical identists. "The creepy thing about the city of Rapture is that, the world doesn't know this society's fallen apart," says Levine. "Music still plays, vending machines still audibly hawk their wares, and so op." He references a contraption with animage of a "scary" clown—when you walk by; it shouts, "WELCOME TO THE CIRCUS OF VALUES!" ("I should know, for I am indeed the) clown voice actor," says Levine.)

Like a deep-sea refuge for Dr. Moreau, think of BioShock as a Wild Kingdom of the welrd. It posits an ecology of hulking Big Daddles in corroded 🖟 diving suits protecting waifish Little Sisters, the latter in bow-tie skirts and scrambling on stickthin legs to harvest and process a gene-modding substance called ADAM from dead bodies, as: their foes—drug-jazzed Splicers—speak or stalks In the shadows, Enter you, playing the anomaly ns usual but in a spontaneous ecosystem swarm-

ing with hostiles. *It's very much like GTA in the sense that once you open up parts of the world, you can always return to them," says Levine, commenting on Rapture's free-form framework. And remember, none of this is scripted. You kill a Splicer, and the Little Sisters come out of their hiding places to hervest ADAM from the body. And the Big Daddy comes outle to protect that Little Sister." The world of *BloShock* is always humming, in other words. Rapture's denizens go about their business with or without: you, trying to scrape by in a world gone nuts. "How you want" to interact with themis up to you," adds. Levine.

When it comes ito interacting with: your character, of course, the mechanics may get a bit ghastly:: Though the team wants a clean break from BioShook's spiritual predecessor the System Shock series), the echoesi of self-modification are undenlable. The difference: *BioShock* invoives a slow surylya)-driven descent into drug-jacked madness. Much of the game apparently hinges on your ability to pinch harvested ADAM from: the Little Sisters without beiling Big.

Irrational's Ken Levine talks proms, clowns, and a post E3 BioShock



Don't expect marimbas and dancing crabs te he waiting around the cerners in Rapture.



Manipulate the dangerous relationship between Big Daddies and Little Sisters.



Much of #ioShock's backstory about crazed tyceons is told through logs and messages.

Daddles or tangling with Splicers. Once acquired, the material (called plasmids) can be used to mod your ability to relate to the environment—say, thermal- or air-pressure change—but only a few at a time (the development team likens it to a dack of cards with limited slots). Other plasmids can be sprayed like pheromones to lure Spiloers into direct confrontation with Big

Daddles, leaving, say, a Little Sister open jor easy pickings—do you kili or just steal from her? "BioShock adds moral choice to the equa-

ition of gameplay choice. Levine says. "The game indapts to support you intentions." Indeed, if a single

word defines Bio-Shock, Levine says it is "choice." "Our goal le to sentence play-by-numbers to death," he continuss. "We don't want to tell the game how to play; we want them to tell us how they're going to: nurvive. Let's face itthis is where games are going, RPGs get

W Oblivion action games get it-GTA-and now it's time for shootens: to evolve." Levine and team, In fact, view BloShock as "the deepest shooter ever made/ "We think it's going to bring Shout a real change in the

shooter genre," he says, "Let's

tace it...the FPS has gotten kind of stale since Helf-Life 2

Those might be fighting Words, considering the positive reaction to Valve's recent Episode Onethen again, Levine's the brains behind trailblazers like Thief and System Shock 2, "We intend to be the stake in the heart of run down the confdor, shoot the moneter who pape out of the closet, rinee, and repeat' actual of FPS gemes," he says. "If you want to go deeper—if you went to hack, if you want to craft, if you want to explore the depths of our genetic powers—think X-Men mutations—then BioShock will be there for you as well. But even if you're just into shooters, the story line, the A.I., and the world are really something you've never experienced before."

Will that story line be dynamic enough for multiple endings? "There's a fair amount of choice in the game's story, primarily around how. you relate to the Big Daddles and Little Sisters," tesses Levine. "And as Forrest Gump might put: it, that's all I have to say about that now." / Matt Peckham

AY-EYE-AY-EYE-0

The All in BioShook leady is something new," says Levine, offering the following list of behaviors he claims you'll wilness in Bio-Shook (and that you've never seen before);

- Weeker A. a hiding behind alronger one
 - Alls:mounting the deaths of their friends:
- A ke running to health stations to heal themselves.
- A ke looting corpees and machines,
- All a pulling weaker All a out of the line of fire (a Big Deddy will actually grab a Little Sister by the acruff and pull her to safety)

UNREAL VS.

UNREALITY

Me're 100 percent

Unroal 3.0," anya Irralional Gampa

broaddent Kon Loving President non Lovine.
Somebody got it in their head that we're not and that notion's replicated

that notion's replicated itself across the gaming-verse. The wall standard visually is the water,

People who saw the water at #3 literally gasped."



Splicers aggressively scour Rapture's levels for other inhabitants to stesi ADAM from.



↑ Splicers cling spider-like to cellings...sad drep down on unpretected Little Sisters.



HE HOT SHEET

TEN THINGS THAT ROCK CGW'S WORLD

THE NEXT BEST THING

Enter Assop Rock, he of solid rhymes and heavy beats. Combine with Jeremy Fish, street artist extraordinaire. Together, the two crafted this limited-edition short-story art book and 7-Inch record about the creative process. Our advice: Grab one for \$25 on upperplayground.com before they're gone.



A GOOD PSP GAME?

Finally, we've found a reason to brush the dust off our PSPs-no loke! Tekken: Dark Resurrection is best portable fighting game around. And, well, we like the bowling minigame. Karate strikel



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DIZA LED WATCH 4

Here at CGW. we embrace the inner nerd, but sometimes, you need to let it shine. Thinkgeek.com sells this Trek-tastic LEDladen timepiece for \$140. Go on-you're

INTEL CORE 2 DUO

Well, the results are in (see Hard News, pg. 106) and it's official: AMD is no ionger the gaming speed king, intel reclaims the crown-blg time.



GET LOST 4 When a DVD set

of Lost's second season showed up in the CGW office, the big mystery became: "Who the hell has it now?" Everyone wants to see all the behind-the-scenes special features.



DISC OF THE DEAD

Endless waves of the shambling undead, trapping you in the mall-could a game possibly be more perfect? Some gameplay quirks aside, Capcom's Romero tribute Dead Rising is reason enough for any zombie connoisseur to buy an Xbox 360.

PHILLY CHEESE

What? You haven't seen the messed up FX sitcom It's Always Sunny in Philadelphia? This season alone, the show's dealt with steroid abuse, crack, welfare, underage drinking, and the physically challenged. Politically correct, it ain't. Funny, it is.



NINTENDO -

We finally laid our hands upon the DS Lite and were ashamed we missed out on so many good original games for so long (try Phoenix Wright: Ace Attorney and Trauma Center: Under the Knife if you doubt us). That's to say nothing of Nintendo's upcoming Wil console. If you haven't done so already, preorder, stat!



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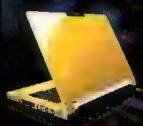
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Valve Software turns vaporware tangible and student project into showstealer

BY SHAWN ELLIOTT AND DARREN GLADSTONE

EXCLUSIVE



valve's triple threat—*team fortress* 2, *portal*, and *half*-Life 2: Episode Two packaged together and piping from Steam to your PC sometime this season—encapsulates the company's past, present, and future. If TF2 is the outfit's tardiness (or perfectionism) incarnets, it also represents Valve's ability to find big leaguers in the bush leagues, to take mod makers, as was the case with *TF* creators Robin Walker and John Gook, and position them to produce blookbusters. Portal, itself

an offshoot of student-developed software, promotes the tradition. Imagine seven programmers from Redmond, Washington's DigiPen institute of Technology showing their senior project to Valve raps and eigning on that same day. Meanwhile, HL2: Episode Two, breadwinner and main event, at once holds the line and heralds things to come, epitomizing why a visit to Valve today offers a glimpse of its tomorrow.>





TEAM FORTRESS 2 Seven-year switch



CHARLIE BROWN, PROJECT

lead: When we started Team Fortress 2, we set out to make the best-looking, best-playing class-based multiplayer shooter We studied Team Fortress Classic, since we're founding

TF2 on it, and wanted to settle on a complementary look. "Realistic" wasn't the way to go So we started studying several styles, and given the exaggerated nature of the game—the nonreal stic weapons and stuff—it seemed natural to lean toward a nonrealistic look.

Once we decided that, the first question was: "What will characters look like in this world?" Obviously, we wanted what you could call aspiration characters: characters players want to play as. Plus, when another player shows up on your screen, you want to know right away whether he's friend or foe. So we have something we call a "read hierarchy." When someone shows up onscreen, we want

you to be able to identify what team he's on and what class he is—so, say, if he's friendly, you can figure out how you want to team up, work together, et cetera. Silhouettes are essential, especially when identifying someone at a distance, so we went superdistinct

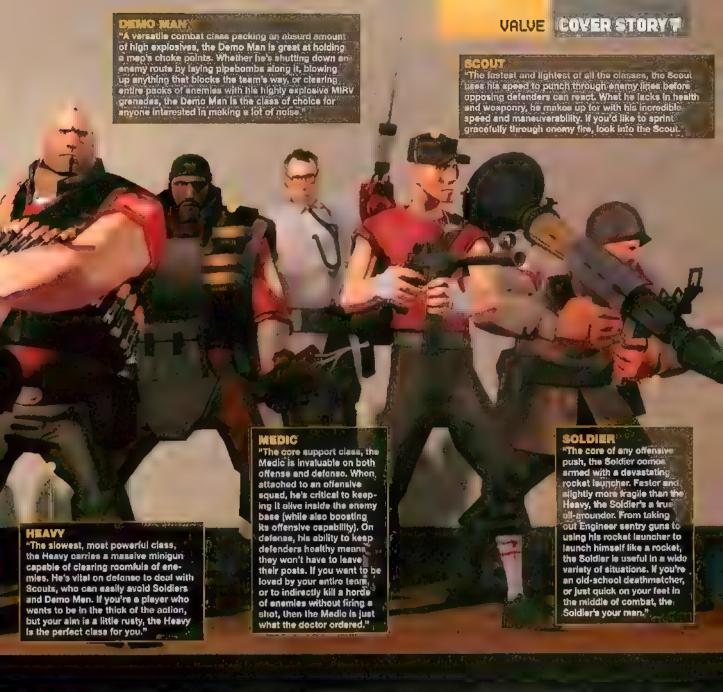
Robin Walker, cocreator: [Pointing at a projection of TF2's Pyro] To give this character a sophisticated, less cal-shaded look, we've built this gradient of color up the body where it gradually gets brighter, drawing the eye to where the character gestures and holds his weapons.

CB: Since we wanted something stylistically sophisticated, we worked out a way to implement Phong shading in real time. This creates nice highlights on the characters—it brings out some of the folds in their clothing and makes them a bit more interesting than comparatively flat cel-shaded characters. In addition, it actually makes figures stand out from their surroundings, so it's easier to identify danger

[Again pointing at a projection] Here's 2Fort [see glossery, pg. 74]. We apply the same principles to maps, too. With two opposing teams in such close proximity to each other, it's tough to settle on a plausible environmental excuse-why would one faction build a base 100 yards from another? But when the setting is more iconic, that sort of sense-making isn't necessary. Space would've worked, but we're tired of the "space marines" thing, so we tested other themes that said "wacky weapons" and found the vibe in '60s spy-meets-sc:-ft movies. You have that nice retro feel, along with the high-tech equipment that does all the stuff that you'd want it to do without having to explain it. Instead, It's like, "This looks like a thing that shoots fasers." No need to ask how or why; it does what it does

CGW: Like Get Smart.

CB: All of those spy shows! So on top of this theme, we have façades and high-tech areas. Think 007 and the evil lair inside the volcanic



island. It takes us back to the "this base being beside the other" thing. Well, we say that the folks in this warehouse weren't aware that the farm across the way houses another facility. We're having fun with it, juxtaposing rural and industrial, run-down and high-tech.

It works well with gameplay, too. In a typical capture-the-flag map, a no man's land or neutral territory separates the two teams. Our art emphasizes that and you say to yourself: "This is neutral territory, it's less intimidating." Then, "Ah, I'm moving into the opposing team's property, it's more threatening, and I feel like I'm trespassing."

We want these neutral areas and facades to say fow-tech, so we're sticking to a rural look Well, blue bases tend to be a bit more industrial, but neither teams' façades are nearly as high-tech as what's underneath. So we play with transition spaces and prepare people to think that things are a little off.

Here we have a barn, mostly low-tech, but we start to see some hints of high-tech—this video

camera tooks a little out of place. Look closely at that cow...it's actually a billboard. Then we start seeing sharper cutoffs. The front of this door has a ho-hum vibe, but its back is a bank vault. Each map has a theme—2Fort's is a command center or NORAD-style space."

RW: The point he's making here is that a huge amount of TF2's art flows from gameplay. We're emphasizing the level of experience we have with our technology and with what makes TF tick.

CGW: Cosmetically, this is applies to Team Fortress Classic's oranges; structurally, it seems the same....

RW: Although Team Fortress Classic is a version of Team Fortress, it's pretty old at this point. Off the bat, Source has a bunch of technology that wasn't available when we built earlier versions of Team Fortress. We're taking advantage of that tech, so even simple things such as physics have a huge impact For instance, Demo Men and classes who throw physically simulated objects immediately become more interesting when we imagine them in Source. And, well, this isn't the first version of *Team Fortress* that we've built by any stretch [Laughs]

GGW: So tell us about those other versions. RW: How many, and what happened? There were a few and, in each case, we learned a lot. Our process involves loads of playtesting, internally and with outside testers, so each and every version of *Team Fortress 2* included a set of developed technologies and developed design—some of which we liked, and some we didn't. In each case, we skimmed off the cream and took it with us to the subsequent step. So the *TF2* you see here includes several improvements—wide-ranging alterations, additions, and so on. It's certainly not the same as *TFC*, not by any means. Some classes, for instance, are completely raimagined.



An abbreviated version of these various fits and false starts?

RW: We're not talking about that today

Control You're kidding, yeah?

RW: I'm guessing that the in-game commentary in Team Fortress 2 is probably the place where we're going to talk about that stuff. We're talking years of work, and we haven't massaged that into an understandable statement.

In terms of technology, a bunch of the stuff we showed off in *Brotherhood of Arms* ended up appearing in other products. The parametric animation system became the fully fiedged blended-animation system of *HL2*, Voice chat up-synched to characters is in *Counter-Strike*, and so on

How would commentary work in multiplayer?

RW: We want to do Day of Defeat commentary as well, and we're not sure whether it's where

you can listen to commentary while everyone else plays or you're in some other mode where you can't see people. We are planning to incorporate commentary into our multiplayer content, though, and, with its long history, TF2 is a prime candidate

Was the Half-Life 2-flavored stuff stripped from the Source SDK [see glossary, above] a red herring or the remnant of another false start?

RW: [Laughs] Well, it wasn't a red herring. We don't do reams of work to throw hackers off, it was from one of the iterations, and some of the best bits are absolutely sticking around for Team Fortress 2

What, specifically, will you say about this "skimmed cream?"

RW: Well, we're still playtesting, and we wouldn't want to make promises....

Can you comment on essentials classic elements such as concussion jumping [see glossary]?

CB: They're intact. And, in fact, we're even seeing new ones. "Sharking," or so I'm told, involves moving so swiftly as a Scout that you can actually skip across water without sinking

RW: Team Fortress is all about that, I think. Its core—players making a choice about how they want to play, whether that's, "I want to be about mobility, dodging, and minong through defenses" or something else. We're going to keep that Multiplayer games are, in some cases, inherently humorous. Put 20 people together and give them all guns and try telling them to stay serious; it doesn't work that way. No matter how serious a shooter wants to be, it'll have moments that make you laugh a lot. Instead of trying to fight it, Team Fortress 2 takes hold of it.



Were TFC's trick jumps intentional, too?

RW: Absolutely Remember, Jeam Fortress came out of the Quake era: all rocket jumping, all the time. Giving medics a concussion gre-

all the time. Giving medics a concussion grenade that made them move faster and farther

was definitely deliberate.

**You're reluctant to say what you're adding. Will you reveal what you're removing?
**CB: It guess the nice answer is: The game is 10 years old, and we've learned a lot. Again, we're still testing and tweaking and can't give concrete answers.

eration with the caveat that they're ideas under consideration....

RW: Instead of specific ideas, I'll offer a blanket statement. One thing we want is to make the things much more understandable. You've probably tried to introduce new players to TF—tried

to explain exactly what's what, except explosions are going off, scouts are sprinting by, someone who looks like an aliy suddenly turns into a Spy and starts stabbing.

CB: Chans

RW: Yes. Team Fortress is certainly chaotic, and we're not necessarily trying to lose that But we are making it accessible. It's almost all in user-interface elements rather than about removing features

CB: Class interactions are interesting—we're changing things there, too, mostly in the way one class complements another. We're incorporating new ways to work together tactically—it's all about decisions, overcoming different problems in different ways.

RW: Team Fortress 2 tries to makes sure that no matter what your skill set is, you're incredibly valuable to your team. In the past, TF faltered in places where a couple of classes could function in the same roles.

Perhaps some serious shockers for the purists?

RW: They'll be shocked 'cause it shipped! [Laughs] The old TF community has come out of the woodwork, suddenly sending us a ton of e-mails saying, "We've got the clan back together! We're ready, man! Let's go!" They're the people who have to pay for our product, and we want to make sure it's something that they want to pay money for. So we invite them in, let them play....

Let I s it difficult? The hardcore have ideas that don't always agree. Where do you draw the line?

CB: Obviously, sample size is one way. One person on our forums says this class is underpowered; someone else insists it's overpowered. In some ways, it's subjective, so it becomes about bringing in as many people as we cansussing out what the actual problems are



and addressing those as opposed to people's personal reactions

Sure. So while watching a sufficlently wide cross section of people play the game, you start to see so much of something—for instance, nobody playing a Pyro—that you get past the point where it's subjective.

CB: That's it exactly,

Steam's friends function is working well. Will TF2 take it further and, say, separate players by skill?

RW: I think the short answer is "yes."

...√ Any possibility of cross-platform competition between Xbox 360 and PC players in TF2?

CB: Technically it's possible, although interoperability is up to platform holders. If they open it,

we can write the code to support it. Once upon a time, we had the PC and the Dreamcast versions of Half-Life: Deathmatch working together, so we know we can do it.

So we've seen 2Fort. What about other maps and modes—push/pull, attack and defend?

RW: Again, we're not talking yet, atthough I can say that Team Fortress 2 will have classic maps, new maps, and more modes than CTF. One of the things that was fun and worked out well in the original Team Fortress was the variety of modes and the way that they changed the importance of various classes. Old engines constrained the ways that the Demo Man could modify the world with detpacks. We can do much more now, so I definitely think we'll be pushing that as well as taking advantage of the Engineer's ability to work on stuff, and so on. And certainly some of the classic maps are undergoing change.

As with all of our multiplayer products—actually, all of our products—*TF2*'s an ongoing process. We're never "done" with it on the day we ship, and we definitely have ideas for other classes with original styles. We define our classes in terms of play style—"I want to play this way. Which class do I choose?"—and through testing we've discovered other styles that people haven't had the opportunity to explore elsewhere

So much class-based stuff sticks to what we'd consider the core—a guy who's good at combat, a support guy such as the Medic, a technician, and then that's it. They stop right where you start to see the really interesting stuff, like the Spy or the Engineer It's possible to play as an Engineer without any ability to aim whatsoever. The Spy takes out opponents purely through sneaklness—watching how other people play, and using their own behavior to best them. That's what we find the most fascinating, not more combat classes.



THE MODDERS MAKING FORTRESS FOREVER HAD REASON; to heng their heads on what, for the rest of us, was a rad-letter day. However, when Velve unveiled Team Fortress 2—radically religgered and closer in concept to Team Fortress Classic then the company's previous plans signaled—FF folk were as excited as everyone else, insists designer Keity Dickinson. "Come on. Who wasn't excited?" he says. "Still, we discussed the 'TF2 release contingent' ages ago and decided that it wouldn't greatly affect our own goals even if it did coour during FFs development. Obviously, there's cause for concern though." Namely, whether or not the official Fortress will nix the Source mod's following before it's even formed. "We're pushing to release FF prior to TF2," Dickinson asys. "Showing something to the community sooner improves our chances of success, and new players should be more apt to try us. We've worked too long and too hard—a little over three years—to quit: No way we're gonna let it go to waste."

For Dickinson, Team Fortress' class-to-class imbalances and exploitable bugs are chinks, not serious oracks; the chief trouble is in the same complexity that makes the FPS, well, classic. "With so many different experiences—each depending upon the class a player picks—the game is deunting," he says. "Plus, public server play doesn't display the depthon tap in more organized matches. With Fortress Forever, we want to provide better direction for players. We have a hint system similar to Settlefield 2's. We're offering namated tours with overviews and point-ofinteract flythroughs that show objectives for each and every map. We also, have an 'intro,' or interactive training session, lead by bot instructors, inwhich players can test the same advanced techniques that veterans perform." TFC-native tricks (read: conc jumping) aren't just possible, they're positively reinforced: Fortress Forever's stat system (a mishmash of notions from BF2, WarCraft III, and GunBound) rewards players for team- and objective-based accomplishments.

Melding the preservationist's "they don't make 'em like they used to" devotion to the past with a willingness to tweek parameters, FF, Dickinson holds, is firmly rooted in TFC but lan't an outright remake. "We decided to stick with the Soldier-Medic dynamic that's so strong in TFC and push the other classes up to that ideal," he says. "We've tuned mobility, making the Pyro a cooler class with an incendiary cannon that's more mortar than FPG and allows for trick jumps. Similarly, we've modified the Heavy's chain gun so that it's more satisfying to use and we've given the Sniper teamwork-oriented options such a readic-tag ammo that allows allies to see marked opponents through walls. In addition, Spies can crouch in midair to muto the thud of impact. They also stay disguised while firing tranquilizers—although [the] rate of the is slower—and suto-disguise as opponents they stab in the back."

Valve's Robin Walker says, "It's great. They have different goals, so! we're not threatened by them, and they don't feel threatened by us. People will play what they want to play. And the Fortress Forever lot has some nice-looking stuff." Reason for FF's makers to hold their heads high then, provided they meet projected release dates and continue to iterate according to player input.

CGW: Are physics posing any impediments? For instance, dealing with rag doffs when Spies feign death?

CB: Absolutely, Definitely.

RW: Yeah Our philosophy there is to run with it, not to fight it. Instead of saying, "We need to make sure that you can do everything now that you did then," it's "What would we do if we were inventing this game today?" And what we usually find is that we get a bunch of new, much more exciting behaviors.

CGW: For example?

RW: OK, maybe I'll talk about the Medic, who's much, much different in *Team Fortress* 2. We don't feel that anyone's produced a perfect medic in a multiplayer game, and dertainly *Team Fortress Classic*'s mechanism is a chore. The way that you heal people is annoying and hard. You can't do it in the middle of combat, the other person has to be aware that

you're trying to help them, and so on. So Team Fortress 2's Medic is completely changed in the way he interacts with other characters and the way he fulfills his purpose as the core support class. Now he's supportive on offense and defense. If you're near one, you'll appreciate his presence whether you're hurt or not

CGW: We hope he can still spread infection.
RW: [Laughs] Earlier you asked what about
Team Fortress Classic we didn't want in Team
Fortress 2

CB: There's one

RW: Excellent example. That feature fundamentally says, "Stay away from your team-

mates; they might hurt you " That's not exactly a good signal to send.

CGW: Shipping Team Fortress 2 will send a good signal. How does it feel to finally, finally get within range of an actual rolease?

RW: It's awesome. I keep seeing things here and there where I want to shake the artists' hands; their work fits the gameplay so well. Watching a Heavy open up, with HDR on his tracers and that massive muzzle flash—the whole thing just tooks better than I ever thought Team Fortress would look. It's exciting.

"I WANT TO SHAKE THE ARTISTS" HANDS; THEIR WORK FITS THE GAMEPLAY SO WELL."

-ROBIN WALKER



PORTAL LINE A SINGLE MAN AND AREA OF THE PROPERTY OF THE PROPE



BUGS BUNNY—WASCALLY wabbit, videogame ploneer. Slapping a hole on a rock and stepping inside, he'd instantaneously emerge from some distant burrow. And yet, thanks to modern so entific advancements at Vaive

Software, what once seemed phony now works. The proof is in *Portal*

Those little environmental/logic puzzles scatlered throughout Half-Life 2 and HL2: Episode One? Pfeht Nothing compared to what we've played in Valve's first person puzzler. In Portal, Newtonian law is meant to be bent if not broken The game's portal gun tears holes in spacelime, creating paths to and from physically unconnected points; its gameplay challenges players' spatio-logic prowess with perplexing labyanths. The only fatalities in this firefight free bonus (bundled with *Team Fortness 2* and *Half Life 2*. Episode Two) result from bungled jumps.

Portal's simple design draws on stark white backdrops straight from THX 1138. Riffing on Metal Gear Solid's similarly spartan VR training missions, each room presents a new puzzle that, in turn, teaches another knotty navigation trick. Open a portal under a crate and place the exit point over a turret emplacement, gravity does the rest, as the crate drops on the gun and destroys it. Plummet into one low-lying portal and use the

momentum to catabult yourself out yet another portal and over a yawning chasm. Sound familiar? Prey needled with similar notions, but making and manipulating portals-as opposed to simply stepping through them-is another matter. Perhaps you've heard of the little freeware that could called Narbacular Drop? A student project from the DigiPen Institute of Technology, ND (download it at nuclearmonkeysoftware.com) plays like a lean version of Portal, "It's an environment-traversal game, too," says level designer Kim Swift, part of Narbacular's seven-person crew. Excitable engineer Jeep Barnett finishes her thoughts: "Originally, we wanted these overly complex ideas—weapons and entire cities full of things to chase down," However, that was too intricate, "so



we cut it all out, just stick to the portals, and see what we had,"

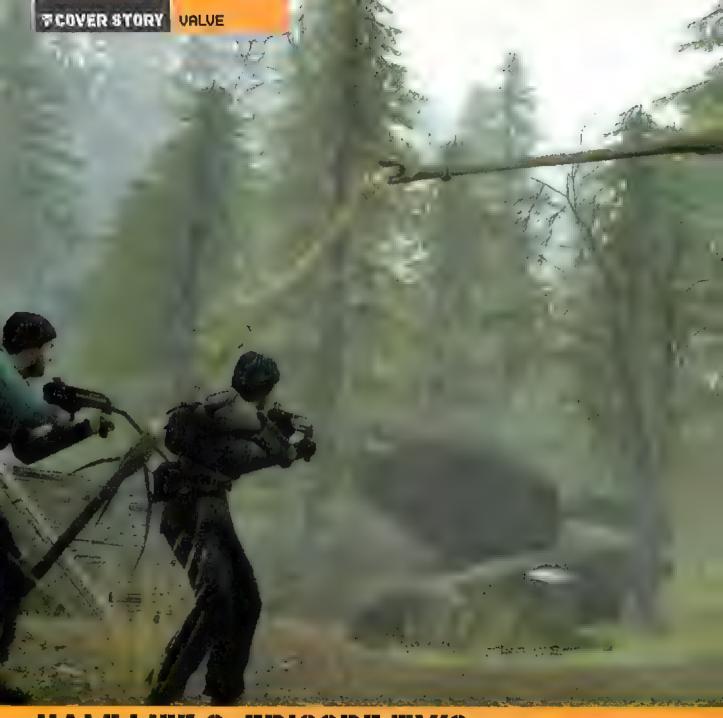
What they had caught the attention of Valve employees visiting DigiPen's annual student expo. "We showed ND to (Valve founder) Gabe Newell Apparently he must have liked it, because he hired the whole team on the spot," says Swift, summarizing one heil of a senior project success story. Now, celebrating its one-year anniversary with the company, the team's first pro title nears completion.

Right now, though, *Portal* is in the throes of rigorous playtesting—an important lesson learned from their bug-bitten sen or project. "The entire game is built on player feedback," says Barnett. "The Valve school of thought—test, iterate, test—has helped improve *Portal* in every way," More satisfying is seeing testers work out new ways to solve challenges—and inspire completely different design. One interesting observation. Women assess the situation before acting, whereas men bop about as if bracing for a fight Finger testosterone if you must, but c'mon. The game, played entirely in the first-person perspective, has you staring down a gun barrel while solving IQ-busting brainteasers. The first urge is to fire a few rounds and burny-hop. We did.

Swift confirms that this unique single-player puzzler also somehow ties into the larger Half-Life world. "Think of Portal as a sort of side path that will connect with later episodes. It's

fun figuring out how we're going to fit ourselves in. Stranger still is that Valve scribe Marc Laidlaw places *Portal*'s events between *Half-Life's* Black Mesa incident and the beginning of *Half-Life 2. "Portal* is one of those parallel-evolution games that's converged on where we're at in some ways. I just loved what they were doing," confides Laidlaw As per the Valve norm, how it all connects remains a mystery. "*Portal*," Swift says, "offers some answers white raising other questions."

For starters, what's next? That, according to Swift, is up to the masses and what they want—Portal's features integrated into the Hall-Life franchise proper or a full-blown sequel. We say why not both?



HALF LIFE 2: EPISODE TWO Into the wild



CGW: HOW IS THE EPISODIC experiment going?

Marc Laidiaw, writer/game designer: We're still in unknown territory in terms of storytelling. In Episode Two, we're out of the familiar confines

of Half-Life 2, out of the Citadel and City 17. It opens up possibilities—a new setting, new characters, and new events that we couldn't pull off in the past

David Speyrer, engineer/project tead: Marc has to keep several stories in his head, since we can't predict where gameplay prototyping and playtesting will take the product. The player is another random element in that equation, and only through experimentation are we able to figure out what works. So Marc stays superflexible in such an unpredictable framework.

CGW: So you say, "We want a temperate forest," and Marc matches his story to fit?

ML: Well, it works both ways. We'll take a list of levels and areas that we'd like to explore, let the artists stretch their wings, [and] let the level designers do the same. Then we'll work that into the story. Other times, we'll settle on a story idea that dictates the environment DS: [To Marc Laidlaw] I remember you really wanted to develop the Vortigaunts in Half-Life 2. They're unique in our fiction in that in Half-Life 1 they were your enemies, whereas in Half-Life 2 they became your allies

ML: We want to get into who they are, their motivation and special role. In Half-Life 2 we couldn't get them into areas where we wanted them, that sort of thing, so we sort of went. "OK, we won't deal with them here, and that changes their story." Now we say why they weren't infesting City 17, why you frequently encounter them out in the countryside. The exigencies of game development tweaked things, but I'm totally happy with the way it ends up.

DS: When we playtested Nova Prospekt—the prison in Half-Life 2—one Vortigaunt got loose and went around shooting Antilons. I wanted to fight alongside him, but it was way too late to introduce new companion A.f. to Half-Life 2 so we bookmarked it for the future. We knew



that adventuring with Vortigaunts would be fun, and that dovetailed nicely with Marc's desire to flesh them out.

COW And what role will Vortigaunts play in Episode Two?

Josh Weier, engineer: Obviously, we didn't want Vortigaunts to work the same way as Alyx, so they do things differently. They shoot lightning bolts and can charge your suit, bringing your health back up. They're also great against Antlions, and will flip them onto their backs to buy you time.

D5: And for consistency's sake, we can't have Alyx die at any time. As allies, Vorts fix that since they're hive-minded and all the same. Also, it's much easier to make an

alien endearing. Because we're programmed to recognize whether a person is behaving appropriately, it's tough to make someone such as Alyx effective and evocative. With an alien, you have a little more leeway, and you can take its personality in more interesting directions.

Just avoid Jar Jar Binks. Have you considered revisiting other Half-Life 1 characters from time to time?

ML: So much from Half Life 1 is still unresolved, and we're having fun bringing elements of the Black Mesa backstory forward For instance, Dr. Breen was an unnamed administrator—you never saw him in Helf-Life—but in Half-Life 2 he becomes a character. One of the old Half-Life scientists will emerge in Episode Two.

Shining the spotlight on a new Barney or Dr. Kleiner?

ML: I won't say too much more about him until we roll out the red carpet, but he's a fun personality to inject into scenes. I kind of know how Dr. Breen is going to talk, I kind of know how the Vortigaunts are going to respond to things, so it's good to work with these characters when putting scenes together.

DS: [Laughs] Hmm. What? Let's look at this vehicle



JW: We wanted a vehicle that looks, feels, and functions unlike what the Resistance used in City 17. A car created to kill zombles, it's cobbled together. The muffler is crimped on, it has fenders from different cars, a cowcatcher on the front...NPCs interact with it in interesting ways. The lithe zombie actually leaps onto it to attack If you swerve, he swerves while still hanging on-the way he would in an action flick. To clear him off the car, you'll want to smash into a wall. DS: Allies can catch rides, too.

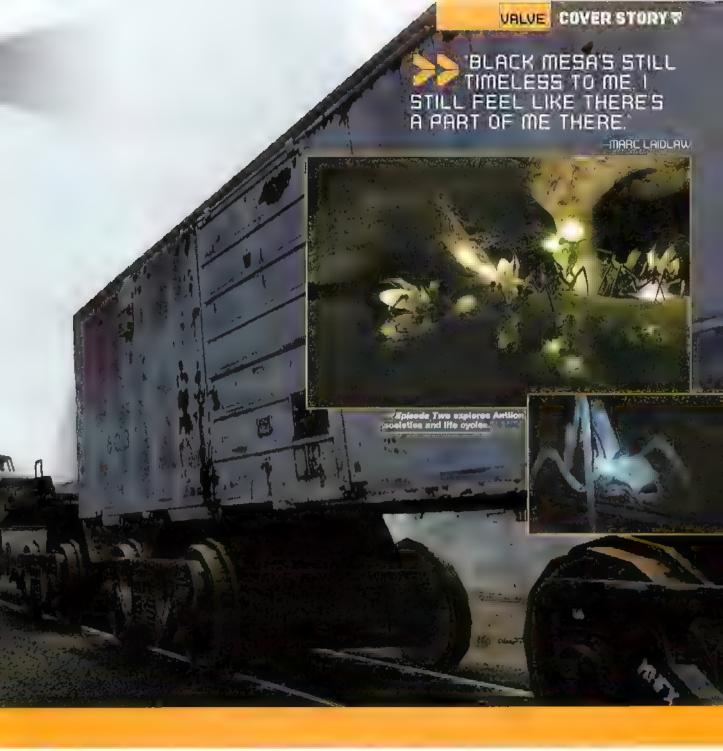
Are these vehicle segments as straightforward as those in Half-Life 2? JW: Some maps are massively nonlinear. The jeep's a great way to get around, and so we wanted to make big maps

D5: [Points at a monitor] Gordon's crossing through the countryside, racing Combine forces to a missile silo in the White Forest The goal is to rendezvous with Resistance scientists working on a superimportant project there. The big environments between City 17 and the missile silo required us to change the way we build maps. We render a few dozen trees and then replicate those in slightly different orientations and positions until it feels like a full forest. Look at this: See how the Strider demolishes this house? [Reloads and replays scene] It collapsed differently that time. That's cinematic physics.

How different is it from what Havok or AGEIA is doing?

DS: Gray Horsfield [who worked on destruction sequences in The Lord of the Rings and King Kong for director Peter Jackson] translated his techniques to game development. The initial destruction event is canned animation, then we hand off some of it to Havok simulation. We use it to do much more spectacular stuff without slowing the computer down.

[Attempting to take on a Strider] Bear with us on this Strider Buster demonstration; we're using a pumpkin to represent it at this point. The goal with this weapon is to get Gordon down underneath the Strider. It's a comboweapon; it works as gravity gun ammosimilar to C4-and then conventional weapons. detonate It.



And that's the Hunter....

ML: Every time you encounter a new creature, you want to know how it fits in with the Combine. How does the Combine use them? Where did they originate? We're fieshing out the whole tapestry of Combine creatures and the ways in which they fit together.

DS: Hunters, for example, accompany Striders. They're pack creatures designed to pursue players into all the spaces that Striders can't. And they emote

Ted Backman, senior artist: Think about the way we read faces: raised eyebrows, squinting eyelids, flaring nostrils. Now imagine that for Hunters. The eyes retract inside of the head. The pupils dilate, much like Dog's does. It seems strange to talk about this sort of alien and acting, but I think it'il read really well and people will intuitively understand the different emotional states.

CGW: After seeing Dog in action, it doesn't seem strange at all.

TB: Dog's performance in *Hall-Life 2* and *Episode One* made me want to push dramatic acting among monsters. It's one of our goals going forward.

DS: We also want to breathe more life into Anttions—let you look at their life cycle, social structure, and that sort of thing. We think you'll get a kick out of walking through Antilon tunnels, and, yeah, you'll definitely deal with Antlions in new ways, and see

Anthon variants that you've never seen before in Half-Life 2

CCW: Speaking of NPCs, what can you tell us about the big tease from the beginning of Episode Ons—the Combine Advisors escaping the Citadel?

D5: It's one of the interesting things about episodic storytelling. While working on Half-Life 2, we'd revise the whole story as necessary. Here, however, we create an episode and ship it. Episode Two can't revise Episode One. That said, we always had plans for the Advisors—we foreshadowed them at the end of Half-Life 2, and we showed them in HL2: Episode One We'll flesh them out in future episodes.>



ML: These teasers aren't accidental. The fact that the Advisor scene is there in Episode One is a strong sign that it's significant. In a tonger game, we could put something in simply because it's cool. Here, we often end up cutting it. Things have to do double duty. They have to be good for gameplay, they have to add to the story, and they have to look great. There's less and less extraneous stuff in each episode

CGW: As you trim away accidental and/or nonessential experiences, are you afraid you might paint yourself into a corner?

ML: We try to avoid inconsistencies and contradictions, but even if we think that we've painted ourselves into a corner, we'll find some way out That's the fun of it. Every now and then, though, you'll find footprints in the paint! [Laughs]

With Half-Life 2 we were thinking, "We want to make sure this is expansive." In Half-Life 1, we didn't think about anything beyond Black Mesa. But I'm often amazed by it, because, as I said, we're still pulling stuff out of Black Mesa, and its backstory figures significantly into the episodes as we move forward.

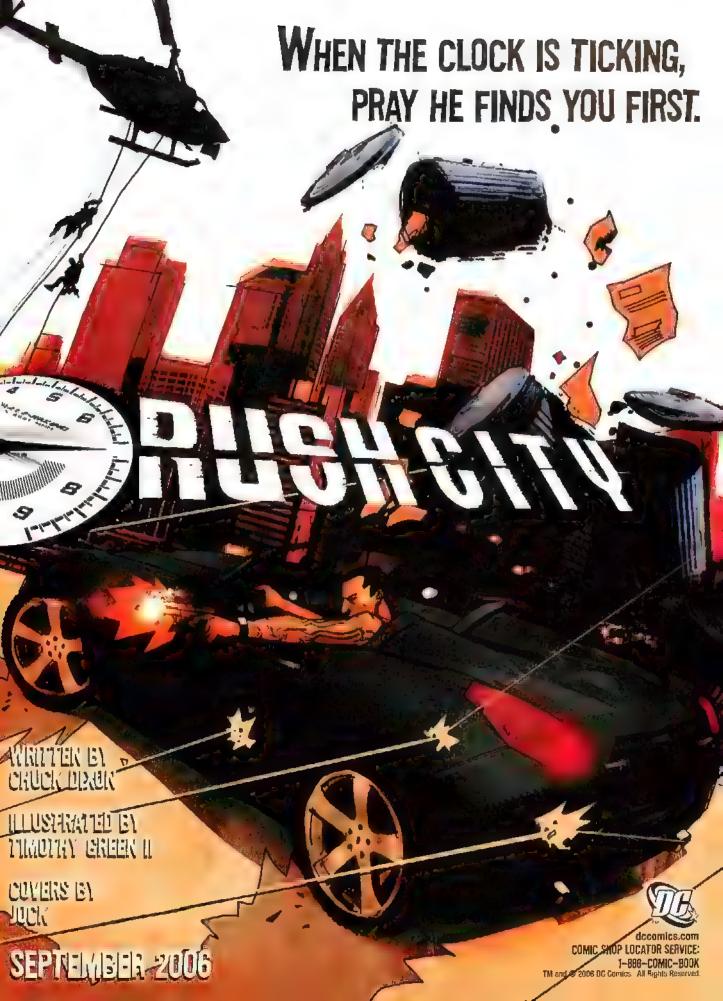
On moving forward: Previously you referred to episodes one through three as "Hatt-Life 3." Is it only a trilogy?

ML: What we're working on now is a three episode trilogy. And what lies beyond that .. DS: Is unspeakable! [Laughs] Any conclusion we provide to any story arc will leave unanswered questions. To me, that just seems right. Our players are participants in our fiction and it would spoil a lot of the fun to the a little bow around every question for them.



"ANY CONCLUSIONS WE PROVIDE TO ANY STORY ARC WILL LEAVE UNANSWERED QUESTIONS...THAT JUST SEEMS RIGHT."

-DAVID SPEYRER, ENGINEER/PROJECT LEAD





ALVIDON

READ THIS FIRST! THE COW REVIEWS SECTION IS NO MORE, HERES HOW VIEWPOINT IS DIFFERENT



NO MORE REVIEWS

Mindful of the lateness of maguzine reviews, we don't print our reviews in the magazine anymore. instead, we publish our reviews online the day the games come out—you can find them online at http://ogw.1UP.com.



MULTIPLE SCORES

Yes, we still have scored We give every game a score when we first review it online (just look for the [UP Network score—that's usl), For additional parapactive and points of comparison, we also list the scores that other websites and outlets gave each game.



BROADER ANALYSH

These articles are meant to give you the bigger picture: a summary of our original online review, community and mediareaction to the game, and a look at patches and updates since a game's original release. In shorts It's everything you need to know



THIS IS NOT A REVIEWS SECTION

The astute among you have probably noticed a bit of tinkering going on with the Viewpoint section over the past couple of Issues-namely, the addition of a "Reality Check" box on each featured game noting review scores given to the product in guestion by major gaming opinion sites.

For those of you who want scores, that's what the 1UP Network number exists for, 1UP's PC reviews-all scribed by the very same snappy writers whose witticisms you're about to read-form the baseline for what you see in this section each month. We include those other guys' scores as a frame of reference for readers curious about some of the other points of view we commissed refer to-a shocking inclusion for a section called Viewpoint, we know.

OK, so the headline on this page isn't completely true-but we don't want you to look at Viewpoint as the typical reviews section that you see in every other magazine (hence the name change). Yes, you can find opinions on games now available in stores. Yes, we attempt to provide relatively timely coverage of games you might be interested in playing. Beyond that, we go a cut above the norm in our content thanks to all the elements spelled out in the handy FAQ below. Embrace the change-we definitely have.



EDITORS' CHOICE AWARD CGW's reviews don't concern themsalves with accord synthetions; you can find those at 1UP.com well before the megazine arrives, Our Editors' Choice emblem signifies the best in PC gaming.



Civilization IV: Warlords More civs, more scenarios-more ways to

get obsessed all over again.



The Ship They're coming to get youl



Tom vs. Bruce: PoxNora Wanna trade cards with us? Eh? Eh?

FREQUENTLY ASKED QUESTIONS ABOUT VIEWPOINT

So do you still review games?! YES! The CGW team posts its reviews: anline as the games hit store shelves. Read them at cow IUR.com

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CIVILIZATIONIV

Too much is never enough

GOOD EXPANSION PACKS CAN'T MAKE up for a territole game. In the case of Civilization IV, that's not such a problem. But even with a great game like that—and don't kid yourself that this wasn't the best game of 2005—an expansion pack needs to get you excited enough to pull out the original again. If you'd uninstalled it, the expansion should make you willing to tear through your stacks of games, looking for the CDs so you can do the reinstall shuffle—and like it. Spend an evening tracking down a game that wound up in some paper sleeves at the back of your deck? A good expansion pack makes it all worthwhile.

WHO DECREED THIS PLEASURE DOME, ANYWAY!

It's not tough to get excited about Civilization IV again. The problem: Does the expansion pack: really have anything to do with it? Do you really care that you get to play as the Carthaginians?

Or that you can build a trebuchet? Or that Civ IV: developer Firaxis Games had the questionable taste to include Josef Stalin as a Russian leader. while showing the obvious sense to exclude Hitler from the German side? Longtime Civ fanatics (those who've stuck with the series since 1991 and still have Civ II installed somewhere on a laptop or old Windows machine) won't find any surprises here. In that sense, the minor changes in Wartords are instant failures. Ooch! A Great General! Is that because you forgot to put him in the original game in the first place? "Hmmm...we have Great Engineers, Great Artists, and Great Prophets...what are those guys in the army called? No. I can't remember, either, Let's Just leave that out this time."

Short of adding the soldiers and Richard Nixon, it's hard to effect any substantial change to the C/v formula, which continues working quite well: even a decade and a half later. Sort of counterintuitively, the only way to really make players think

differently about these types of games is to limit their options in some way—because expanding a player's options has long since reached the point of diminishing returns. Hence the only substantive difference about the Warfords expansion pack is the inclusion of fixed scenarios.

I know—everyone hates fixed accenarios. All 4X strategy games should have the largest maps possible, with the most units, because that's what these games are all about...right? Trust me, though—the scenarios work. In fact, they're the best part of Warlords.

TREBUCHETS-R-US

Here's the wairdest thing about Warlords: The scenarios feel like total last-minute add-ons cobbled together to offer some more material for when players get sick of building trebuchets. To load a particular scenario, you have to restart the game in order to queue up the particular mod that the scenario uses (trying this in multiplayer without the appropriate restart causes crazy sync errors). Once you get past this undocumented problem, you realize you have the choice of some excellent multiplayer situations...and some totally broken messes. But the real challenge lies in the limited range of action available, in these scenarios, because when a game.

THE ONLY SUBSTRUTIVE DIFFER-ENCE ABOUT THE WARLORDS EXPANSION PACK IS THE INCLUSION OF FIXED SCENARIOS





 Apparently, the English were the enes who invented the stock market.



Yaccal states are a way of hiding under your mother nation's skirt.

WARLORDS

Imposes limits on the player's actions, it must do so very carefully to avoid undue frustration—and Warlords generally gets this equation right. Paradoxically, despite the expansiveness and scope of the well-established Civilization system, the part of Warlords that works best is the one that limits the game the most.

it's also interesting to see how well Warlords works as a straight war game, which is what you're essentially playing in the Peloponnesian War scenario (one of the best scenarios, incidentally). The Chinese Unification scenario puts players in a diplomatic straitjacket and forces them to forge atliances in order to accomplish anything, and works vary well in multiplayer. Some of the other scenarios, like Omens, don't work well at all...so, just like every other part of this package, the quality varies.

Reimagining and restricting the game's ecoperate makes an intriguing solo scenario possible, in which the player controls the Vikings in their invasions of the British Islae. The goal: Loot, loot, loot. You can even ransom cities back to their owners, with the proviso that once-ransomed cities that fall under subsequent attacks won't accept further ransom demands. So, of course, your ultimate goal is to ransom every city once—and then build up a massive armada to

come back and take them all again, plundering them properly. That's what Vikings do.

Did i mention the fact that Warlords also features buildings specific to each civilization? It's a nice touch, but ultimately not that important. New Wonders include the excellent Great Wall, which looks super even if its usefulness remains questionable. One scenario lets you play as the barbarians, and it feels like the final act in a series from which we've now seen everything. Ultimately, perhaps the reason Warlords is so good is simply that enough time has passed since the release of the original game, giving you planty of leaway to appreciate it all over again. Force Geryk

GAIVIING

VERDICT

Worth your money? Yes. Worth your time? That depends on your valuation system.

REALITY CHECK

A DATE OF THE PARTY OF THE PART	
TUP NETWORK	8/10
GAMESPOT	8.6/10
GAMESPY	3.5/5
IGN	8.4/10



A The new Great Wall wonder is one of the best...looking.



The trabuchet and trireme spice up the carly game...just a little.



Vep, you still get to bisw stuff up!

You still san't save whenever you want...se you need to activate teleperters before you quit in erder to make sure your gaming session wasn't for saught.

MOST EXPANSIONS SKIRT A FINE LINE between "making the most of a quality angine" and "wringing the lest dime from a tired property." The thing is, which side of the line a given expansion falls on is less a matter of objective analysis and more a matter of how much you liked the base game. It's telling, then, how little commentary (professional or fan-based), exists for developer Gas Powered Games' new Dungeon Siege II expansion, Broken World. In fact, apart from GameSpot reviewer Greg Mueller, the internet critics remain positively mum. Bad sign? Well, in the words of Oscar Wilde: "There is only one thing in the world worse than being talked about, and that is not being talked about."

Despite the ho-hum-ness, a few honest-to-goodness, objectively identifiable strengths and weaknesses shine through. The two new classes (with names that scream "marketing department"—see sidebar for details) and one new race (dwarves) aptly complement the gameplay, and the added content provides a few more solid hours of hack-n-slash. On the other hand, Broken World's graphics are as dated as a milk carton and its story thinner than Lindsay Lohan...before her intervention.

SAME AS EVER

Good or bad, though, the new stuff doesn't add up to much. As GameSpot's Mueller points out, "[Broken World] doesn't bring anything to Dungson Siege II in terms of the story, and it's too short to stand on its own as a separate cam-

paign." The game throws some uninspired new-dungeons at us (the final one is little more than a really long comidor), with most of the repetitive. "new" enemies simply rehashed from the base game. While the expansion's boss monsters provide good challenges, requiring some tactics; and clever timing to defeat them, you wind up fighting the same ones repeatedly throughout. Other aspects (the clicks-r-ue gameplay, the multiplayer mode, and the spells and weapons) remain completely unchanged.

Then again, the tack of change doesn't necessarily equal failure, as long as you maintain an "it ain't broke" attitude about the original *Dungeon Siege II*. The gaming industry is rife with sequels and expansions that radically alter a series, only to upset fans. Instead, for better or for worse, Gas Powered chose to play it very safe here—so if you just want more of that old feeling, *Broken World* should keep you happy./ Eric Neigher.

GAVING

VERDICT

Only diehards will warm to this by-thenumbers expansion.

REALITY CHECK

THE PERSON NAMED IN COLUMN 1	
IUP NETWORK	6/10
GAMESPOT	6.3/10
GAMESPY	
IGN	6.3/10



This of Child land the Commission of Children

YIVA LA RIVOLUCIONI

IF YOU LOATHE SPENDING MONEY ON war games of questionable quality that keep covering all the same old crap, you can't do much better than 1848, downloadable (free of charge!) from Battlefront.com. As its name implies, 1848 covers the Hungarian Revolution of 1848—tell me if you've ever seen that in computer form before.

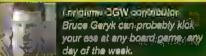
The Hungarian Ministry of Education sponsored 1848's development, and Battletront.com used this bit of government largesse to promote its latest war game, For Liberty!, which covers the American Revolution and comes from Hussar Games, the same developer responsible for 1848. Furthermore, the two games share a common system...so, chances are, if you're into 1848, you'lt also onjoy For Liberty! The latter game costs money (you can try a brief demo before you buy), but frankly, I like this "get one free, then buy one" system of game marketing, in this case, it gives players access to a game about a period of history with which they might be unlanting, and then gives thom a reason to try it out.

Obviously, this kind of thing isn't going to work for many other war games, because

not all of them can receive funding from big government institutions like the Hungarian Ministry of Education. However, Battlefront com gets props for recognizing the opportunity here and using the game as a marketing tool rather than trying to charge even a modest price for it.

And if you're still hungry for American Revolution material after For Libertyl, try Birth of America from www.ageod.com, a PC game from the designer of the original Europa Universalis board game. Bruce Geryk







Ever wanted to play out the Hungarian Revolution of 1848? Now you can.



 For Libertyl uses the same game system as 1848, so if you dig one, you'll likely dig both.

AVIATOR. MODERN TECHNOLOGY, CLASSIC DESIGN



With its realistic feel and authentic design, the new Suitek Aviator puts you in control of the most thrilling flying experiences ever. Whether you're patrolling the channel or landing a bush plane somewhere in the wilds of Alaska, the Aviator gives you unprecedented command over every situation. Soultped by engineers and molded by artists, the aviator propels classic aviation into the 21st century. So as you prepare to embark on your next adventure, put the Aviator into your cookpit and head for the clouds.

Duel independent throttis controls with interiori

Tealingly dealers bridge

E-way FOV pet

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Hudaer been

Donatant force apring ombal design

fully programmable with over 24 commands

Ambidextrou

Compatible with Windows:2000; X2; XP64

Saitek



WERE YOU TO KNOW NOTHING ABOUT history except what you learned from PC games, I'd forgive you for believing that Rome was the world's only great empire worthy of a game simulation—or, in the case of this release season, two of 'em. CDV's Glory of the Romen Empire led the charge...and the second of these sime, CivCity: Rome, is an intriguing collaboration between Civilization's Firaxis Games and Stronghold's Firefly Studios that, despite its positive qualities, excels only at duli mediocrity.

SIZE MATTERS

At first, Rome feels like a strong mediumintensity city game, well suited to casual players
or veterans with little appetite for hardcore mioromanagement. The math is easy to grasp (one
in-game person equals 100 citizens), with simple
resource-production chains varied enough to
make each a unique challenge. The game's beat
innovation: a realistic representation of citizen life
that allows you to diagnose problems by watching citizens' comings and goings (rather than by
combing through into boxes and tables). It all
works quite nicely—until your city gets too big.

As cities grow, the game unravels...and

Rome's apparent accessibility begins to smell,
instead, like a cop-out. The production chains
that made the early game so engaging either
become harder to troubleshoot or simply break
down (it's hard to tell which). The low zoom-out
and unchangeable viewing angle prove unworkably claustrophobic. And, without any useful hot-

keys, playing at the game's brisk pece becomes physically tiring; would it have killed someons to program "R" for roads and "H" for houses?

The campaign mode tries to minimize this problem by moving you to a new (and usually empty) map with every scenario. Far from helping, this structure forces you to, as GameSpot reviewer Brett Todd puts it, "build the same town over and over again." Worse still, you quickly realize that the best way to achieve mission goals is to forge strategy in favor of plopping stuff down willy-nilly; it's like finishing a puzzle by pounding in the last few pleces with a mallet. Your cities end up sloppy and disorganized...but that's the next governor's problem, right?

RENDER UNTO CAESAR

Even before they reach this state, however, the cities aren't much to look at. Most critics (except for IGN's very forgiving reviewer) pointed to the game's "ugly" sesthetics, but that's a bit misleading. Yes, the building selection acreams "monotonous" and everything's blocky up close—but that's not "ugly," that's "dated." They would've been quite acceptable four years ago. It's curious, then, that the game runs so sluggishly even on machines that exceed its recommended specs; at highest settings, even midsized cities stutter annoyingly.

TIME MACHINE OR A DUSTY SHELF!

Everything about the game, in fact, seems so 2002. I'm unable to escape the feeling that

Rome was an uninspired and rightly shelved. game that got a second chance with the infualon of Firaxis brainpower. Still, not even the Civilization team's most substantive changes penetrate more than skin deep, as if the games was just too finished for any fundamental alterations, Ignoring the purely cosmetic changes (like calling the collection of Roman trivia a "Civilopedia"), the attempts to put the Civ in CivCity: Rome do improve the game and little, but they fall far short of their promise to—as lead designer Simon Bradbury said in an interview—put "the cities of Civilization" under a magnifying glass...[carrying] on where the furthest zoom level of Civilization left off." One could imagine the great game we'd have now had Bradbury kept that promise.

Perhaps no worthwhile city-builder can approut from Civilization IV's city concept, but it would've been nice to know that someons gave it an honest try. Batter that kind of failure than the post hoc patchwork of CivCity Rome. / Greg Kramer

GAMING

VERDICT

At this shotgun wedding of the Civilization and Caesar franchises, no one catches the bouquet.

REALITY CHECK

NG/ALLI UNEUN	
TUP NETWORK	5/10
BRITEEPOT	6.6/10
BAMESAA	3.5/5
IEN	8.2/10

EVERYTHING ABOUT THE GAME SEEMS SO 2002



EETS ALIVE!

THOSE OF US OLD ENOUGH TO HEMEMbut CGW Hell of Famer Lemmings back, when it debuted have waited a good long time for something to come along and till the void lifet only a lack of adorable, suicidel, teaping orieters can create. Enter Ears to TE said void.

In this nifty ittle puzzie piatformer, you guide a cutesy ittle white blob (the eponymous bots) sorces a cartoonish landscape. Your goal: Get the little guy to the ligasw-puzzie piece serving as the finish line for the lower. You do it by meseling with bots, and changing how lar (if at all) he leaps at a platform's edge. Or you could shoot him will phopolete chips from the choco clouds...or have him get gobbied up Jonah-like and shot across his lovel by a chanky whale, year, it's all moral than a little surreal—picture Willy Works on eventimere LSD—but it's an acclictively good lime. You ben pick it up for just \$20 at www.estegame.com

POPCAP'S MIDAS TOUCH

While PopCap's Whec-A-Mole wannabe Hammer Heads Deluxe clidn't grab me the way most of the publisher's methadone-clipped-in-honey games do, Telismania makes up for it, consuming my free time faster then Bets downs a happy marshmallow. What makes Talismania so addicting is the way it mixes different game types and rewards

The core of the game consists of spiriting coins around to create paths between different taxamans. Longer paths equal bioger rewards...simple, right? But with three Ners of tailsmans offering three different levels of raward, a mix of bonus coins and blockers to snare for bonuses, and all Duck Hunt-like minigams between missions, the action never stops, and neither do you, Don't mess with the free trial—give in to the inevitable purchase at www.popcap.com. Robert Coffey.



CGW alum Robert Coffey blames his inability to get anything done on "column research." He's really just playing word games online.



Feltitellemen (combon are one of the least least



that stens between victory and Rets' seath.

FIGHT OR FLIGHT

Fight in the air or on the ground, Fight on the beaches or at see. Fight during the day or through the dark of night, Fight with valor. Fight with might.

Defend your ermies, whatever the cost may be. Patrol the skies. Hunt down your enemies. Attack your fees. Never retreet. Never surrender.

Fight with speed. Fly with ease, Fight with these weapons and victory will be yours. So go to your nearest retailer than head into battle.



- > lilumineted backlit keys in blue, red & purple
- > Media keye control audio
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- > 3 Position keyboard angles from zero slope
- > Side lighting helps reduce computer eye strain.

> 1600 OPI precision > 6 Buttons > Fully programmable Translycent, illuminated rim



- - > Non-contact technology on X & Y axes; > 30 Rudder twist
- > Adjustable ergonomic grip zyetem

Illuminated buttons and MFO

- > 200+ Advanced progressmable commands
- Precision rudder skis control

 Adjustable pedals with integrated tas brakes
 Adjustable resistance for realistic feel

 Strong, stralle hase

Saitek



I SHOULD 8*** AND SHOWER. I NEED of this in *The Ship*, I should say (what with all the out-of-proportion MMO players out there who'd sooner crap in a sook than step away from the PC).

The man in the top hat and coattalls is scheming; I've seen him pace the same corridor one, two, three times. Same goes for the old crone with the graying bob, meandering in and out of third-class cabins, bespectacled one moment and naked-eyed the next. She waits to catch me washing, snoring—or, worse, crapping. She waits to off me on the can with the pool cue, poison, stiletto, ekillet, cleaver, screwdriver, the iron, or any other object—improvised or for the purpose—she so happens to have hidden underneath that dead-giveaway gown. But we all want blood on our hands. Maybe "she knows I know" is more "she thinks I'm out to murder her."

Sixteen passengers per online server, we walk the ship, visiting boiler room and recomon, infirmary and brig, looking for our very own Professor Plum and the lead pipe to whack him with. Meanwhile, Colonel Mustard (or whoever, among the 14 other players) follows us. Each voyager is both target and triggerman, whereas Sims-lah.

needs—bladders, stomache, and atimulation-starved brains—create vulnerability. If atop for a bite, I risk a knife in the back. Ignore those needs and fatigue sets in, making me an easier mark. The rule set is simple; the psychology is something else.

MIND GAMES

A poker face is paramount: Only an assassing sure of himself, positive ha's approaching his hit and not the other way around. Everyone else stays tentative, on edge...or in the shrewd executioner's case, trying on sheep's clothing. What you have is first-person dinner theater—based more on artful deception than hand-eye aerobics—that even the honmousing, WASD-sverse will take to

In fact, The Ship favors Parker Brothers "them's the breaks" attitude toward setback. Rousing and routine, electrifying and exhausting—like Manapoly, it soars when some other lout grabs the "Go to Jali" card. Alternately, TV, chitchat, or the takeout menuton the table looks twice as interesting when that lout is you (here, it's one player starting within spitting distance of an ordnance dump...while the next needs to scour the deck just for a knitting needle). In bad luck hold out; in good luck, hold in

Fortune aside, satisfying executions float this Ship...assuring a half-wit you're a nooblooking for a tutor and not his life, only to off him as he types; polsoning a schiep and butchering him as he heads to sick bay. Similarly, in my mind, The Ship is mostly immune to the bugs and imbalances other critics carp on. Psyche yourself out. Play it in short, on-again, off-again stretches—not to sink time./Shawn Elliott

UNSMOOTH SAILING

harmon both and busque The Will

GANING

VERDICT

Too spirited, sinister, and inexpensive (it's \$19.99) not to try.

REALITY CHECK

IUP NETWORK 6.5/10
GRMESPY -IEN --

THE RULE SETS SIMPLE: THE PSYCHOLOGY IS SOMETHING ELSE.

PACIFIC BY NIGHT

THIS IS A TALE OF TWO ULTIMA ONLINE thereofers—Gameion (my thief) and Shass (my buddy's insere ex-murdering beggar dude)—who, one dark night at around 1 a.m. after a long combat training session on UO's Public shard, declared, "Lat's go look for trouble!" In the waning days of the game's unforgiving kill-or-be-killed atmosphere, we rarely needed to look any further for our entertuinment.

ook any surther for our entertainment.
So we took on earoes the dooks of Skera
Braa, and into the thick of Britannia's urbanblight—with two unamed (unless you count
Sheal's pickex), mostly naked, and severely
unfinished characters. We often ran into some
fairly odd and rendom encounters at these
hours, as we did on this night: A small, playerowned house stood in a clearing, and near it
as a shirtless, deer-antier-adomed tamer stop

According to the house's sign, it would fall at any minute (as was once the fate of any lift maintained house in UO). A quick inspection of the tamer's pookets revealed a fresh house deed—obviously intended for the soon-to-be-empty spot—along with some spelicasting materials and quite a bit of gold. Since this amateur land tycoon remained motionless and whosy unresponsive to our antics, we

did what any good heli-raising troublemakers would do at a time like this: We PK'd him.

YOU ARE DEAD.

For the uninitieted, that's short for "Player Kined." Shaal fore through the hapless house-camper while I carefully trapped the nightman inside another nearby house, thoughtfully left unlocked by its undoubtedly soon-to-be-dead owner. After looting the tamer's corpus (and letting-our oriminal timers expire), we wandered into an even more abaurd situation fariher south Two trash-taking mages dueled outside their guild house, oleany focused on honing their mad PVP skills. Shaal wasted no time in telling on these two veteran characters, insisting that he could take then both by himself—driving the boint home with a sudden pickex attack.

How exactly the ensuing meles unfolded I do not clearly remember. I helped out by stealing random items from the mages' backpacks white Shaai ran around trying not to get killed. He managed to clude them long enough to plotup a poisoned butcher knite (ake the weakes) weapon in the game) from a nearby player owned weapons vendor, which I'm pretty sumble used to kill one of the mages. One way or another, I know that this particular comedy of orrors old end with at least one of the mages deed, right before Shaai and I disappeared into

the woods yet again...where we wandered into a moongate (tency UO talk for a teleportation gateway) that aprang into being right next to us.

PHAT LEWTZIN111111111110NE1111

On the other side of the moongate, we found the decayed house from earlier in the night. On more accurately, we found a shiny new house where the old house set not an hour prior. We immediately hid mear the moongate, rightly expecting the new tenants to drop in, nauling furniture and other possessions. Moments later a large, 400-pound clients tell to the ground right next to the moongate. You see, players oftentimes transport heavy cargo by "drag-lights"—that is, exemising the goods between their inventory and empty patches of floor hearry (necessary to offset the stamins lose that comes with carrying heavy loads)—and for a split second, the treasure cheef rested unclaimed, on the ground...nght next to me.

The proud new homeowners never had a clie lafter discovering their valuables missing, they took off in search of the thieves...obivious to the fact that we slood right next to there, hidden the entire time. We got the loot back to our lown house without further incident, and found that we'd hit the jackpot with all the gold and large items we'd accred.

Man...those were the days. Perm Scott



CGW editor and MMORPG addict Ryan Scott misses the good old days of vicious PKs and endless urban sprawl.



WE DID WHAT ANY 600D HELL-RAISING TROUBLEMAKERS WOULD DO AT A TIME LIKE THIS: WE PKD HIM.



 We told those ove was proxy looking characters that we were victous PKs, which they comenow believed. Leter, we wound up kining them.





ICH vs. BRUCE



PUBLISHER: Octopi DEVELOPER: Octopi AMALABLITA Devanicad (www.pozaporu.com) GENTE: Colicelible Card Game ESRG RATING: Not Relad RECLIRED: Java-boood web trowser RECOMMENDED: N/A MULTIPLAYER: 2 players

TOM: SEVERAL PEOPLE RECOMMENDED PoxNora, a new online CCG, to Bruce and I. They said we'd like it, because it's turn-based, and you can build decks and use lots of different strategies, yadda yadda yadda it sounded right up our alley. Plus, the game we were going to do, Sword of the Stars, was really awful...and we wanted an excuse—any excuse—to not play it. PoxNora gave us just such an excuse.

BRUCE: I thought I was going to be playing a collectible card game (or "CCG," as hip guys like Tom call them), but I had to play a web browser first. Instead of actual cards, I got a list of my cards, which I had to page through to "activate" the ones I wanted in my deck.

TOM: Nothing like a clumsy card-sorting interface to make a bad first impression in a CCG. However, maybe this doesn't apply to PoxNora, since they're not called "cards." They're called "runes," which is apparently another word for "cramped 2D graphics that don't convey very much information at all." But we wouldn't find that out until we got into the actual game; in the meantime, the deck-building process—although I'm not sure you can actually call a collection of "runes' a "deck"—was indeed a big hassle. So I just randomly picked a faction...let's go with, umm, dwarves...and threw in my rarest cards. There, I had a deck.

BRUCE: Every CCG deck has to have a theme, or it doesn't work. Tom's theme, for instance, was dwarves. My theme was beating Tom by rooting all of his monsters and then making the ground under them turn to water and drown them. Actually, I only have one Drown card, but it seemed like a pretty good way of taking out a big Chickian monster. Plus, it's realistic, because drowning is what happens when you go in the water.

Another part of my plan was to have all kinds of ranged units, like centaurs and faerie maidens, to attack across the newly installed water obstacles. Unfortunately, a tot of the ranged units seemed crappy, so I filled out the deck with a bunch of rare, expensive dudes.

TOM: As everyone knows, dwarves excel at making money. Duh—we're talking Fantasy 101 stuff. So I made sure to include a few moneymaking runes: a pair of Deep Miners and a Nora Mine. I figured it a sound strategy, since most strategy games come down to some form of economic management, whether you're trafficking in mana, gold, pox, isk, or tiberium. Besides, using my real-world knowledge of dwarves and the economic principles of strategy gaming beats the hell out of trying to figure out what's going on with the runes in PoxNora (i.e., clicking through my web browser to page through a few dozen runes, each split into two separate displays, to

deduce which rune gets which special attacks and has which special abilities and counters which other runes and other such information that the rune browser takes forever to just freakln' tell me already).

Before we've even begun, I've got a bad feeling about PaxNora.

BRUCE: I start by bringing out my Draksar Lord, which I put in the deck because he's big and scary and costs a lot of mana. He also takes up four squares on the map, which gives him the disadvantage of covering up units that end up directly behind him. If he were smaller, he'd have the disadvantage of being covered up by big units directly in front of him. That's a real dilamma. I suspect the solution lies in overhauling the Interface, instead of remodeling the monsters

TOM: One of the first things we hate about PoxNora is the time limit if imposes on our turns.



 Bruco's magic roots make PoxNora play even slower.



Tom Chick

In addition to being one of the videogame industry's most prolific freelance Journalists, Tom: also runs the popular website. QuarterToThree.com



Bruce Geryk

Longtime CGW contributor Bruce Geryk has written: about videogames for over 20 years; he loves war games like most people love oxygen.



(The Interrogator's special attack is (no joke) Sapping Blow.



YOU HAVE TO REMEMBER NOT TO INTERACT WITH THE OTHER PLAYER 50 THAT YOU CAN SPEND YOUR VALUABLE TIME PLAYING THE GAME.

We can't turn it off, even though we're playing a nonranked game for kicks instead of one of the supercompetitive tournament ranked games that goes on your permanent record. So I have two minutes to figure out whether I should use my Dwarven Axe Guard's Sunder ability on Bruce's Krikkinwing, how worried I should be about his Firk Sensorate, and whether I should instead try to use the Interrogator's Sapping Blow-- Wait. wait, what does Sunder do again, and how much damage has this guy taken? Oh, he didn't take any damage. but one of my guys took damage. .oops, time's up and the turn's over!

This is also a problem because Bruce and I are pretty interactive when we're playing games Here's an example:

BRUCE: I'm summoning a Draksar Lord. He's big and scary and costs a lot of mana

TOM: it's not "mana." It's called "nora." That's why the game is called PoxNora.

BRUCE: I can't be bothered to remember a new word every time some developer decides to make up his own term for an elf or a magic sword or a wizard or some damn thing that already has a name

TOM: Nevertheless, it's called "nora." BRUCE: OK, I'll call it "manora,"

TOM: That's anti-Semitic.

BRUCE: No. it isn't. And you're not even Jewish. You don't even know what a menorah is.

TOM: You don't know whether I'm Jewish. We've never even talked about religion.

BRUCE; You're not Jewish. And we've never talked about religion because we can't get past politics, because talking politics with you is like talking to a brick wall that only listens to NPR.

TOM: At least I don't sound like some Bill O'Really wannabel

BRUCE: Hey, your time just ran out. I guess it's my turn again.

TOM: So that's how PoxNora goes with a time limit. You have to remember not to interact with the other player so that you can spend

your valuable time playing the game. It's like an unholy combination of turn-based gaming and real-time gaming.

BRUCE: Bringing out my nonflying, nonranged Draksar Lord first kind of subverts the whole deck theme...but since my fantasy knowledge comes third-hand, my understanding is that big, scary-looking monsters usually win monster fights. Right now I want to point out to PoxNora developer Octopi that, much as Laser Squad Nemesis' Julian Gollop shouldn't have named a unit a "missile tank" if it didn't have any missiles, you shouldn't put wings on a monster if it can't fly.

TOM: Not a lot of interesting stuff happens in the early turns of PoxNora. Basically, we both summon champions and then spend action points slowly walking our champions toward each other.

BRUCE: One of the second things we hate about PoxNora is that it's confused about whether it's a CCG or a PC game with a bad in-



Piso mojado: Bruce gets the middle ground all wet.

terface. When you're playing a CCG, you have to keep track of different types of effects, damage, and all the things that happen in fantasy worlds that you need to simulate. With all the cards assembled in front of you, it's usually easy to see that-for example-some guy is down to three hit points, because you have to have it marked with something. You can scan card effects by just looking at the cards in front of you. I'm told information wants to be free, which is why the CCG was invented in America.

But in PoxNora, everything is cutesycutes ad into these tiny runes, which you have to mouseover to see...and you can't rotate or zoom in on the monsters on the map. So part of the game is just hunting for information that should be way easier to get. How many hit points does Tom's dwarf guy have left? Not only do I not know, but I have to pick him out from behind two much larger monsters, thanks to the lixed perspective and cramped unit placement. Guys, when you design a map,



Tom's Deep Miners mind the Nora Font while his Earth Golem slowly walks to war.

don't make the pieces as big as the spaces. That's like Elementary Rule 1 in board-game design, and since this plays out like a board game, you might want to go pick that book up at the library.

TOM: While our units trudge toward each other, I summon a BattleRager, That's right, a BattleRager. He must be called this because of how he totally rages during battle. Having clicked on a few different displays and scribbled some rough calculations on a piece of scratch paper I'm using to keep track of all my units, I've deduced that the BattleRager is my best unit. His special abilities include Berserk and Whirlwind, which is what you'd expect from someone who totally rages during battle.

Also, I believe in health care for veterans, that's why I put Desperate Heal and Priest of Valdac into my deck. While I'm reading the flavor text to figure out who the heck Valdac is, the limer runs out and my turn ends. Remember, kids: When you have a time limit, study the cards before you play the game.

BRUCE: One of the fata flaws in PoxNora is that your deck's success heavily depends on which map you use. For example, a map with a lot of water on it heavily favors amphibious and flying units, like the one I summon before ending my turn

TOM: "Champions." They're all champions.
That's the word you're supposed to use.

BRUCE: This beetle thing called a Krikkinwing is a champion?

TOM: PoxNora is about special heroes called champions. They're not al. human, Some of them are Krikkinwings. That's how it is.

BRUCE: I'm not going to take a *PoxNora* history class just to be able to refer to all the pieces properly.

TOM: PC games can have backstones, you know. Not everything has to be a board game PoxNora is no board game.

BRUCE: You can say that again. Anyway, as I was saying, if you build a deck with a lot of amphibious units and you're on a waterless map, you're like a fish out of water.

TOM: Fish aren't amphibious.

BRUCE: Maybe they are in PoxNora-land. By the way, your time ran out again, it's my turn.

I guess I didn't think this whole thing through so well. My centaur archers aren't doing much damage to Tom, who seems to have become invulnerable through some dwarven sorcery or something

TOM: As everyone knows, dwarves and barbarians get along. They probably hang out and talk about stuff like the best kind of grip for a battle-ax and whether you should put points into Constitution or Strength when you level up So, naturally, I've got a few barbarians in my deck. My favorite: the Renegade, who seems inspired by the Lorenzo Lamas senes and maybe even the Styx song. He has a woman randomly lodged behind his right knee, as if she got stuck there while he was striding through a village. For a barbarian, he's sporting an odd haircut, halfway between a Prince Valiant and a Febro. My theory is that it's the haircut that makes him a Renegade

SRUCE: Uh oh. I have a Draksar Lord, but Tom has a big toad with huge teeth, I have no idea what it is, so I have to go click on it and try to figure out what it does. Wait—it has how many hit points? I need to click on it again.



Tom's forces quickly regather to overwhelm Bruce and end this interminable war.

BRUCE JUST USED WHAT THOSE OF US WHOSE GAMING HABITS AREN'T LIMITED TO HEXAGONAL MAPS OF WORLD WAR II BATTLES CALL A "COMBO."

TOM: It's an Earth Golem, and I'm pretty sure it's an awesome unit. It's tough and powerful, but it takes forever to get anywhere, It spends several turns slowly lumbering toward Bruce's units. If it ever gets there, I'm pretty sure it will be totally awesome.

BRUCE: Plunk! Or is that "plonk"? Anyway, I drown Tom's Earth Golem using my Drown card...sorry, my Drown "rune." I'll get it back through rune regeneration eventually, because as far as I can tell, this game never ends.

TOM: Bruce just used what those of us whose gaming habits aren't limited to hexagonal maps of World War II battles call a "combo." It's not a term familiar to people like Bruce who are over 40.

BRUCE: Uh, I'm not over 40. Tom is 40
TOM: Not really. I only just turned 40,
BRUCE: Which makes you 40. Oh, and
happy birthday

TOM: This isn't about my age.

BRUCE: You're the one who brought up age.

TOM: No, I didn't.

BRUCE: You said, "people like Bruce who are over 40." It's right up there

TOM: Oh, right. But still

BRUCE: Hey, your time is up again. Now it's my turn

TOM: The word "interminable" comes to mind Not literally, of course, because then we'd never have written this article. But our match does have a sort of World War I vibe. Our units meet in the middle and die. Then we recruit new units, who meet in the middle and die. So we recruit new units who meet in the middle and die. And so on. I might gain a few squares, or even a nora node...but then Bruce gains a few squares or recaptures his nora node, and we're right back to where we started.

But I have a plan to end this war before Christmas, and it involves a rune called Divine Dispersal, which dispands all units on the field and refunds half the cost to their owners. If I can do this right after I gain control of a nora node near Bruce, then I can use my financial advantage to immediately summon a wave of powerful attackers like Renegades and Batt-

leRagers. They will advance on Bruce's shrine, overwheim whatever defenders he can afford to bring out, and then destroy the shrine, while my Earth Golem looms in the background, slowly walking forward.

BRUCE: Finally, the game ends. I can't help but wonder how bad Sword of the Stars could really be.

TOM: Having won, now I can go to the forge and improve my runes. Instead, Bruce and I make a list of the people who recommended PoxNora, so we can regard their recommendations with the appropriate amount of suspicion. We title our list "Recommendation Probation" and keep copies in our waitets and on our refrigerators, /



▲ Behold! The dramatic spectacle of Tom's Divine Dispersal clears the map of all unital



These numbers are the spoils of victory.

REALITY CHECK

YOUR HANDY GUIDE TO WHAT WE SAY—AND WHAT THEY SAY—ABOUT THE LATEST IN PC GAMING



BONE: THE GREAT COW RACE

We say: "By the time you start having some real fun, it's over. It's fine for gamers who don't mind waiting months, between episodes, but if you want to get the real charm of the story and art, it's best tojust read the comic book."

-Sarah Jaisser Green, 1UP.com (4/10)

They say: "Sone: The Great Cow Race is what it is it's a very well-designed, well-drawn point-and-click adventure that harkens back to the days of old."

-IGN (8.6/10)



CITY LIFE

We say: "City Life is the freshest take on the city-sim genre in memory, managing to be both as challengingly complex as its more gearheaded forebears and more accessible to casual or more philosophical players. Nice trick:"

Greg Kramer, 1UP.com (8/10)

They say: "If the player is willing to dig through the messy presentation, there's some fun to be had here.... With a little more effort and polish City Life could have been ...well...a riot."

—GameSpy (3/5)



DARKSTAR ONE

We says "DarkStar One proves that the term 'tried-and-true' doesn't just mean 'been done.' While it does nothing innovative, DarkStar One does a lot of things expertly within a genre that's, sadly, fallen by the wayside in recent years."

-Eric Neigher, 1UP.cam (7/10)

They say: "Although the flaws can lead to some frustration, they never get in the way of that 'just one more mission' mojo that can keep you playing the game into the wee hours."

—GameSpot (8.1/10)



ROME: TOTAL WAR-

definitely a welcome addition.

We say: "Not too bed for the \$14.65 price tag, but still disappointing compared to the [previous expansion]. With the abundance of free mods out on the Net, [Alexander] ust isn't great enough to be a 'must-buy."

They say: "I'm always glad for an excuse to

revisit [developer] Creative Assembly's Total

War series and the Alexander expansion is

—Di Lue, 1UP.com (7/10)

TITAN QUEST

We say: "While k may not break, or even dent, any naw ground, Titen Quest features a beautifully realized game world based on a tried-and-true core mechanic, with tons of replayability. What's not to like?"

-Eric Neigher, 1UP.com (7/10)

They say: "The only thing that keeps *Titan*Quest from being the consummate *Diablo* clone
is [that] It's missing the robust multiplayer implementation that Blizzard realized with Battle.net."

—GameSpy (3.5/5)

WORLD WAR II COMBAT:

We says "Iwo Jime looks and plays like a tech demonstration from a couple of gifted grade schoolers, with deplorable graphics, clunky controls, and completely unimaginative level design."

-Di Lue, 1UP.com (3/10)

They say: "If you're looking for a cheap shooter, go to the store and grab any game off the shelf and you're practically guaranteed to have a better game than this one."

---GameSpot (2/10)

SCORECARD Available now

(GN (8/10))

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deritte.	4,444,-,4	- I Service I will be a service of the service of t	(Paris), etc., etc.)	n	1,5,1
Bone: The Great Cow Race	April 2006	4/10			8.6/10
City Life	June 2006	8/10	7.8/10	3/5	8/10
DarkStar One	Aug 2006	7/10	8.1/10	_	_
Glory of the Roman Empire	July 2006	6/10	5.6/10	3/5	7.6/10
Night Watch	June 2006	4/10	5.4/10	3/6	6/10
Rise & Fall: Civilizations at War	June 2006	5/10	6.8/10	2.5/5	6/10
Rome: Total War—Alexander	June 2006	7/10	8.5/10	3/6	8/10
Titan Quest	June 2006	7/10	7.6/10	3.8/5	8.1/10
Wings of Power II: WWII Fighters	July 2006	9.5/10	-	_	
World War II Combat: Iwo Jima	July 2006	3/10	2/10	_	3/10

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BETTER THAN TWO TIN CANS AND SOME STRING

SOUNDS GOOD

SIXTY-FIVE MILLION YEARS AGO, WHEN dinosaurs and internal-speaker-only PCs still walked the planet, game audio—where it existed at all—bleated in monophonic "blips," "tweets," and "boops." If you were so bold as to crack open your computer case (a time-honored geek art in computer gaming's Paleolithic era), that PC speaker resembled a teensy silo, hole in the top, beneath which a sliver sliver oscillated at variable frequencies, producing sounds only an extremely forgiving gamer—or droid—could love.

Thankfully, by the late 1980s, dedicated soundcards arrived to tickle tympanic membranes with kitschy MIDI music and, with the advent of PCI, juggle multichannel digital effects that made stuff like car engines sound, well, like actual car engines (as opposed to FX-pimped flushing toilets). But let's cut to the chase: When was the last time you took a serious droot-inducing stroll through the audio section at your local gadget boutique or got hot and bothered over some new acoustics-modeling standard?

These days, you're practically goaded into springing for new CPUs and 3D videocards biannually—but chances are, you've been running that old PCI soundcard (or integrated audio that "came free with the computer") for years. We're all up on the latest 3D video stuff, like SLI versus CrossFire technology, but do you know the difference between EAX 4.0 and 5.0? Dolby 5.1 and 7.1? AC'97 and IHD?

Yeah, so maybe your eyes are bigger than your ears, but as anyone who's gone to the trouble of rigging Doom 3 in surround sound will tell you, if you're still running that "out-of-the-box" two-speaker setup, you ain't heard nothing yet. Read on, and we'll tell you how to breathe new life into your games without dropping a gold brick, help you gauge whether to upgrade your audio gear, and maybe even throw in a few home-decorating hints while we're at it.

SONIC PHONICS

You've been chewing the marketing hype about the "digital age" for decades, so it never gets old pointing out that what your ears actually hear when sound pours out of your hep new "Doiby Digital" speaker set (or headphones) isn't digital at all. Your eardrums are actually analog-only vibrating receivers that pick up continuous sound waves in the air.

BOOST YOUR ACOUSTICS: TIP #1



And yet, from the computer's perspective, sound is truly digital, a series of electrical sighals organized into binary 1s and 0s beyond the ear's native capacity to decode-and that's where your soundcard comes in. Soundcards have analog-to-digital (ADC) and digital-to-analog (DAC) converters responsible for translating those rigid 1s and 0s into throaty growls and screams and thumping hip-hop your ears can appreciate (or if you're recording something like your voice through a microphone, from analog back into 1s and 0s). Audio quality is thus largely subordinate to the processing "comph" of the ADC/DAC system. So when you see buzz about "hearing the difference" in some new high-end digital audio device, bear in mind that you're not "hearing the digital" so

That's all well and good, you're probably thinking, but what about the rest of the magical, mystical malarkey adorning retail audio boxes—arcane acronyms like SNR, THD, and ASIO? Check this quick rundown on a few of the most common (and commonly misunderstood) audio industry terms. Get to know these concepts, and you're on your way to savvy audio shopping.

much as hearing the distinction in digital-pro-

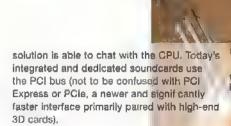
THE BASICS

cessing quality.

Anatog-to-Digital (ADC): Converts continuous signals (i.e., anatog) to discrete binary numbers (i.e., digital 1s and 0s). Measured in terms of precision sampling at certain frequencies, 24-bit at 96KHz is standard in today's consumer-grade audio hardware. (44 1KHz is CD quality.) Higher numbers are better

Bus: Audio variants are either ISA (Industry Standard Architecture, RIP) or the current decade-plus standard, PCI (Peripheral Component Interconnect), which essentially govern the speed at which a soundcard or

DOES
SOUND
MAKE A BIG
DIFFERENCE
IN GAMES?
YOU BETI



Digital-to-Analog (DAC): A DAC converter changes discrete digital numbers (1s and 0s) to continuous signals. Measured in terms of precision sampling at certain frequencies, 24-bit at 96KHz is standard in today's consumer-grade audio hardware. (For compari-

ALL ABOUT AUDIO

Forget 3D graphics for two seconds—sound matters, too.



Tech Medics This month: ExtremeTech's Jason Cross gives you the DirectAnswers on DirectX 10 and cracks an egg of Core 2 knowledge.



son, 44.1KHz is CD quality.) Higher numbers are better.

Digital Signal Processor (DSP): The microprocessor on a soundcard designed specifically for processing the digital signal in real time. Many integrated audio solutions offload this task to the CPU through software

AUDIO FORMATS AND CODECS

AC'97: Intel's audio codec (enCOder/ DECoder) standard, introduced in 1997, and consisting of a two-channel ADC and DAC, a mixer, and an I/O controller. A hardware

instead off-loaded to the CPU, which meets Inte.'s goal of delivering decent audio at reduced costs, Some soundcards list themselves as AC'97-compliant (Creative's older Sound Blaster Livet series, for example) but include a dedicated DSP for performance benefits, while most motherboards with integrated audio implement the AC'97 standard without hardware DSP In 2004, AC'97 was superseded by Intel HD Audio (IHD).

ASIO: Stands for "Audio Stream Input/ Output" and represents a protocol for low-

latency digital audio established by German music technology company Steinberg If Microsoft DirectSound facilitates communication between the soundcard and applications, think of AStO as the equivalent for musicians and sound engineers who may want to access multiple audio inputs and outputs independently. ASIO 2.0 simply enhances the Steinberg ASIO standard (Note: This has no impact on game audio)

DirectSound 3D (D\$3D): Often functionally confused with Creative's EAX specification, DirectSound 3D is rather an extension>

DIDJA KNOW HAVING A DEDICATED SOUNDCARD ACTUALLY IMPROVES GAME PERFORMANCE?

of Microsoft's DirectX series of application programming interfaces (APIs) that works with (rather than in fieu of) EAX. Where EAX simulates real-world environmental effects, DS3D is responsible for rendering positional audio (in the case of only two speakers, it uses special algorithms to "trick" both ears into perceiving more discretely directional audio)

Dolby Digital: Don't think that we forgot about this little company and its audio formats. In fact, it gets its own sidebar on pg. 105. Awww. Isn't it special?

Environmental Audio Extensions (EAX): Introduced in 1998, EAX is Creative Labs' solution for simulating real-world audio environments using two or more speakers. EAX 1.0 allowed eight simultaneous "volces" (sounds) and a series of environmental presets that simulated acoustics like "bathroom," "hall," and "cave." EAX 2.0 bumped voices to 32 and threw in sound occlusion (i.e., the effect of sound passing through a solid object); EAX 3.0 tweaked reverb and environment transitions. and bumped simultaneous vaices to 64, EAX 4.0 introduced the ability to model different environments simultaneously. EAX has continued to improve over the years (the current revision is called Advanced HD 5.0), adding features like 128 simultaneous voice support (with up to four effects applied to each voice) and improved environment occlusion. Nearly all games support EAX, and the standard has remained public (allowing competitors to sup-

Intel High Definition Audio (IHD): Not to be confused with IHD, which pertains to HD-DVD. Intel released this follow-up specifi-

port it) since 1.0.

3005T YOUR ACOUSTICS: TIP #2

Check your room for else adde reverberation. He verb is an else of contract of the contract of

(once) and listen for actions. If the sound take more than a half, 200d to die down, you'll want to creak up the natter surface, with pictures or by rearranging the listen and all how to be actions of the listen and all how to be actions on the listen and all how to be actions on the listen and all how to be actions on the listen and all how to be actions on a should do the trick.

cation to AC'97 in 2004 to support more audio channels at significantly higher quality (32-bit at 192KHz output) and enhanced features like improved voice capture and automatic device sensing when plugged into an audio jack. (If plugged into the wrong jack, the computer can actually repute audio-jack functionality to correspond to the device.) Microsoft Windows Vista will include a Universal Audio Architecture (UAA) driver to automatically support audio devices built to the IHO spac. Note that host processing is still prevalent for cost/design reasons, resulting in a sizable CPU performance hit in audio-intensive games.

Open Audio Library (OpenAL): A mulliplatform audio API with stylistic similarities to the 3D-graphics OpenGL API. OpenAL is an open-source API designed to render multichannel 3D positional audio, with special ease-of-implementation benefits for OpenGL game engines. Games as recent as Quake 4 and Prey both support the OpenAL standard.

FOR THE AUDIOPHILES...

Dynamic Range: And you thought this was just something to do with lighting in Half-Life 2 and Oblivion? The two are intimately related, and where video engineers express dynamic range in terms of contrast ratio, audio engineers use it to represent the range of input and output that an audio device can process without distortion—that is, the "towest" and "highest" fevels, usually expressed in decibels.

Frequency Response: Basically a measure of which frequencies (how "high" or "low") the soundcard can reproduce. You'll typically see this represented as a spread, usually the low number in hertz and the high number in kilohertz. Broader ranges are better, but note that the range of human hearing is generally regarded as between 20Hz (extremely low bass tones) up to 20KHz or 20,000Hz (the highest treble tones).

Signal-to-Noise Ratio (SNR): Signal strength relative to background noise. SNR measures the clarity of the audio signal in decibels (e.g., 109dB). Higher numbers are better (notably, anything over 100dB).

S/PDIF: Stands for "Sony/Philips Digital Interface Format" and constitutes a serial interface for transferring digital audio from CD and DVD to amplifiers and TVs. This jack is on some high-end dedicated soundcards.

Total Harmonic Distortion (THD): The ratio of the fundamental frequency to its harmonic. Harmonics are undesirable effects introduced by power amplifiers or other components through which the audio signal passes. Lower numbers are better (e.g., 0 004 percent)

INTEGRATED VS. DEDICATED

If you've been building PCs all your life, you'd probably sooner be subjected to thumbscrews than skimp on a dedicated PCI audio card—or worse, use an integrated solution. If, on the other hand, you're a relative newcomer with a standard retail rig, chances are you're using an integrated sound solution to power your PC games (whether or not you Intended to).

Q: What's at stake?

At Only everything from audio quality, feature support, and bottom-line framerate. Plug-in audio cards pack dedicated processing chips and boatloads of features, whereas integrated solutions—especially anything more than a year or two old—can put a notable load on your CPU.

Q: What's the thrilling history of integrated audio?

A: With the stratospheric Increase in CPU power over the last decade, Intel came up with the idea of off-loading audio processing to those "extra" CPU cycles. The result (in 1997) was a specification for integrating cheap-to-manufacture audio components on>





You can have the leetest hardware imaginable in your gaming rig, but it won't matter if you run it with a cheap power supply. That's why the Neo HE power supply from Antec is the power supply of choice for gamers everywhere. They come with three individual +12 volt rails, are SLI ready, and can handle just about any hardware you could throw at it Neo HE power supplies also feature modular cabling so you only need to connect the power cables you actually use. The Neo HE, combined with your high-end hardware, makes for a stable and highly efficient noob-owning machine. Find out more about Antec Neo HE power supplies at www.antec.com.



























URL preative.com PRICE \$400

Bowel-shaking earthquakes of audio aren't reserved for the superdope 7.1-channel surround systems. And really, what's the point if you keep falling over all the damn speaker wires in your room? This 5.1 system does a tremendous job of shooting solid sound, and the wireless 2.4GHz rear receiver frees you from trip wires around your PC.

motherboards-periectly acceptable for dayto-day productivity software, but lacking in quality features for serious audio recording and 3D gaming. Today, most PCs (desktops and notebooks) ship with some kind of integrated audio.

Q: Wait-so that audio port on my motherboard is "teh suck"?

A: Your motherboard is a rat maze of wires crammed tighter than uncooked ramen noodles. and pulsing with current. Interference can thus be a serious (saue if you have a motherboard with an SNR below 90dB, Sure, you're not as likely to hear those tiny pops in a noisy fragfest, but in more subtle gaming situations, or if you're simply messing about with audio (ripping music, for example), those creckles will make you mental

Q: C'mon, you expect me to believe that integrated audio hasn't improved at all since 1997?

A: Oh, it absolutely has gotten better. Integrated audio-especially Intel's follow-up to AC'97, Intel HD audio (see above), along with the rollout of ever-faster CPUs, has moved integrated audio squarely into the mainstream, with some manufacturers going so far as to

include dedicated DSPs, 3D positional sound and surround support. After vetting an integrated-solution SNR, the key questions you need to ask are: Is the integrated audio hardware- or software-based? And does it support the existing positional modeling or surround standards vou're after?

Q: As a PC gamer, what does all of this mean to me?

A: It means you've got to take a stand and decide exactly what kind of PC gamer you are. First, you need to choose whether you want to run high-quality or 3D positional audio in your games at all, because if you don't care, dedicated audio processing loses at least half its allure. But say you want it all (and, frankly, who doesn't?)-depending on which audio settings you're using (e.g., high-quality versus low-quality), the performance boost to your framerate with dedicated audio hardware in games like Half-Life 2 or Battlefield 2 can be upward of five to 10 percent. No kidding, Dual-core or no, your CPU takes a beating when it's forced to handle audio off-load. If your integrated audio solution's dumping on the CPU, you'll want to think seriously about picking up a dedicated soundcard.

Q: I'm h4rdc0r3! Does Creative Labs' X-Fi card make any difference?

A: If you're a total audio snob, you bet your ass it does. This is the digital equivalent of a tube amp. It not only makes music sound richer, its positional audio technology knocks around 7.1 without breaking a sweat. Gamers can get 64MB RAM on higher-end cards, as it supposedly improves performance on audrodependent games such as Battlefleid 2, X-Fi cards cost a little extra money, but if you've got a discerning ear, you probably already have high-end speakers, headphones, and home theater gear. So suck it up. But an upand-comer thinks that it can topple Creative: Razer, previously known mainly as a mouse. and peripheral maker. Can its Barracuda Integrated Audio System compare to X-Fi? Well, it sounds good on paper, and the board looks nice (we have one in the office) but for the second month in a row, the box sits on our desk, taunting us. We still don't have drivers! Maybe one day, we'll be able to test it out.

The Bottom Line: If you plan to use your rig for basic stuff-office sultes, audio playback, and basic gaming (or games played on low to medium settings)-most recent integratedaudio solutions will do you fine. If you intend to use your PC for high-end audio editing and audio-intensive gaming, a dedicated soundcard still pays dividends, (You can grab a powerful Audigy 2 Value for less than \$50 if price is an issue.)

EXTERNAL SOUNDCARDS

The flate 10 acceptance in to decode black which have not to the 1990s but it a only bean in the author years has most emanufe. turera insympoured mais with tormaking boundury made spoured real meaning to the manufacture of the manufact

inclings. At the same time reoscongers same notebooks used of the protection of the same same notebooks used of the solution? Consider a PCMCIA soundcard.

Creative Labs manufactures the Sound Blaster

Audigy 2 ZS, which is essentially what it sounds like—a PCMCIA version of its pectable Audiov chipset.

UPPLE STATE OF STATE OF THE PROPERTY OF THE PR and full support to 40 positional accept and Dolby 7 I sonetrial outpos. DOWNSIDES TO Upey exercipated \$150) for secondary out of curce respond battery line increased the resolutions and the use of one of your PCMCIA slots.

Turtie Beach makes a USB soundcard called the Turtie Beach

suggestantage Wildre for just \$50 liters might epigeal from the book

enters with protty old (and considerably, goored) integrated suide. mips. Pigon into a measusB sign and bingo — natant digital sur ound sound equalizar programmable DSF anticare preambilities and a higher-quality headphone jack.

DOST YOUR ACOUSTICS: TIP #3



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MEADPHOMES US, SPEAKERS

First of all, when we say headphones, we're talking the nice over-the-ear sort, so don't go thinking that cheap pair that came with your childhood Sony Walkman is even on the menu. The answer to the headphones/speakers debate is actually pretty straightforward. Do you have roommates, family members, and so on who don't exactly thrill to the sound of you thwacking that ridiculously voluptuous succubus with a lead pipe? Are you cash-strapped and looking for high-quality positional audio without dropping upward of a grand on a really nice surround set? Or do you just hate the idea of playing "hide the wires" with rear and aideline speakers?

Whatever the case, it's worth bearing in mind that even a midorade pair of headphones (around 50 bones) will generally trump most open-air speaker setups if you're into quality over quantity. There's a reason, after all, that professional studio engineers produce their mixes using studio-quality headsets. Goodbye expensive speaker sets, messy wires, annoyed family members...hello allright, foud-as-you-want-'em gaming sessions. Feeting chally? Remember to look at headsets that have a decent boom mic. For good sound without breaking the bank, we suggest Logitech's Premium Notebook Headset (\$60 at logitech.com)

On the other hand, if you hate clapping plastic on your head during a frag-a-thon and you don't have touchy neighbors or relatives. to quibble with, it's hard to argue with the raw, untangled power of a decent surround setup. A well-placed Dolby 7.1 speaker configuration (that's seven surround speakers plus a subwoofer) is virtually untouchable if you're into soiling yourself when Doom 3's "monsters-ina-closet" elect to say boo.

Speaker Tip: When setting up, pay attention to speaker distance. Generally, as distance doubles, the intensity of a sound source drops by six decibels. How does that relate to your perception of loudness? Every 10 dB drop will be perceived as a 50 percent drop in toudness.

Headphones Tip: Cast your gaze around the local coffee shop or bookstore and note the number of people wearing earbuds (iPod headphones, for example), competing with espresso machines, conversations, the music on the overhead speakers, outside traffic, and so on. Recent studies suggest earbuds are dramatically tess efficient at blocking external

sounds, meaning people are cranking the volume higher than they probably should to drown out ambient noise. Long story short, If you're wearing earbuds in a noisy environment, consider switching to an over-the-ear flavor, ear-isolating earbuds, or one of those battery-powered noise-canceling cans.

The Bottom Line: If you want high-quality audlo that won't shake the rooftops and surround sound without speakers and wires-get headphones. If you want to feel the sound of Satan and his minions reaching down your gullet at the maximum speed of evil-speakers and 5.1 are minimum /

DOLBY FOR DUMMIES

Dolby, named after Dolby Laboratories founder Ray Dolby, is a marketing term for a series of audio compression techniques generally referred to as "Dolby Digital" and is available in two essential gaming flavors.

Dolby Digital: Standard for up to 5.1 discrete audio channels (left front, center, right front, left surround, right surround, plus a subwooter...that's the ".);"). A Dolby 5,1 game run through five appropriately poeltioned apeakers will realistically model the effect of moving objects with 360-degree realism, which can be absolutely alert-crucial in first-person games that render the sound of, say, an assailant stepping on gravel or broken glass behind you. Audiophiles with deep pockets might favor hand-selecting. each speaker, even mixing and matching vendors to taste, but the rest of us can find some pretty handy 5.1 speaker combo deals from no-stouch companies like Logitech or Creative Labs

Dolby Digital EX: Takes the 5.1 stendard and adds a single "back surround" channel (6.1) or dual "back surround" speakers (7.1). The "EX" is an extension to the Dolby Digital; (5.1) codec for even more detailed surround effects. Note that it's technically only 5.14. discrete audio channels-the two "back surround" speakers in 7.1 are actually matrix (the same single channel flows to each one) Few games support the EX format, and with limited EX-encoded DVDs and the need for additional speakers, it's safe to bet against EX and stick with straight Dolby Digital for now...



HARD NEWS



The bleeding edge of tech

DUAL-CORE DEATHMATCH: CORE 2 DUO VS. ATHLON 64 X2

We put two affordable dual-core processors to the test

IF YOU'VE BEEN PAYING ATTENTION TO recent events in processor land, you've probably heard about Core 2—intel's lower-power and lower-frequency but higher-speed line of dual-core desktop CPUs. You've probably also heard that Core 2 is fast. But just how fast is it?

Since most people don't have \$2,500 to drop on a new PC every time a new CPU comes out, we concocted a test to represent "your next dual-core computer"—something you could put together for \$1,500 or so. We pit two modern, reasonably priced (\$300 to \$350) dual-core CPUs against each another—AMD's Athlon 64 X2 5000+ and Intel's Core 2 Duo E6600—in six gaming tests.

THE TESTS

Most game benchmarks use "Quake TimeDemo"style prerecorded gameplay, which is great for testing graphics cards, but not so ideal when you're trying to paint an accurate picture of what actually happens when you sit down to play a game. A.l., physics, and other CPU-intensive parts of the game can essentially "furn off" during such prerecorded benchmarking demos.

So in order to more accurately gauge what happens in a real game, we used a popular program called Fraps (fraps.com) to measure live gameplay performance. We patched each of our test games with its most recent patch, ran each at a resolution of 1280x1024, and turned the details up to high. We played each game for five minutes and used Fraps to get a frames-per-second measurement for every second of play. To compensate for the sorts of A.L. and physics variables that crop up in unscripted playthroughs, we then repeated each test two more times to acquire an average

We also took a took at how consistently each CPU was able to maintain the minimum.

Iramerate required for what we decided was smooth and enjoyable gameplay—a number that varies from one genre to the next. While 45!ps is a good low threshold for many games. RTS games can often be perfectly enjoyed down to 30!ps, while first-person shooters are best at 60!ps or above. To that point, we also measured what percentage of time played was spent above each game's (admittedly arbitrary) "framerate-enjoyment threshold."

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GAME!	Com 2 Duo E6600 Average (pe	Athlon 64 X2 5000+ Average Fps	(dea) rea Threshold	Cone 2 Dua Time Beneath Threanoid	Athlon 64 X2 Time Decembly Threshold
Half-Life 2: Episode One	113	86	60	0%	8%
The Elder Scrolls IV: Oblivion	42	40	30	3%	10%
Battlefield 2	90	76	60	0%	6%
Rise of Nations: Rise of Legends	45	37	30	11%	30%
Titan Quest	72	65	45	0%	1%
World of WarCraft	63	62	50	1%	4%
Average	71	61	-	3%	10%



 World of WarCraft has some yet-unresolved Issues (as of v1.11) with dual-core systems that kept the frame rate from exceeding 64fps.



A Even with all the graphics set to high and the detail and distance sliders maxed, the Core 2 Duo still kept Oblivion running at over 30fps, Most of the time.



THE WINNER

As you can see, the Core 2 Duo swept 'em all—and in fact, three of the games we tested never even dropped below our "ideal framesper-second" threshold. If you'd asked us to run a similar test a year ago, we would have told you to go with an AMD processor. The Core 2 Duo clearly puts Intel back on top of the game./

THE TEST SYSTEM

COMPONENT	NTCL PROCESSUR. TEST SYSTEM	AMD PROCESSOR TEST SYSTEM
Processor	2.4 GHz Core 2 Duo E6600	2.6 GHz Athlon 64 X2 5000+ (Socket AM2)
Motherboard (chipset)	ASUS P5B Deluxe (Intel P965 chipset)	ASUS M2N32-SLI Deluxe (nForce 590 SLI chipset)
Memory	2 x 1GB Corsair XMS2 6400 (CAS 4-4-4-12)	2 x 1GB Corsair XMS2 6400 (CAS 4-4-4-12)
Graphics card	XFX GeForce 7900 GT	XFX GeForce 7900 GT
Hard drive	Seagate Barracuda 7200.8 160GB SATA Drive	Seagate Barracuda 7200.8 160GB SATA Drive

Q: I'VE BEEN HEARING A LOT OF TALK about DirectX 10 and needing a new video card for it, but what exactly does DirectX 10 give us over DirectX 9? What differences might I notice between the same game running on a DX10 card and a DX9 card? Are there new effects that games can only pull off with DX10? What's all the big fuss?!

Ryan Jacob

A: This is actually a tough one to answer. See, game developers don't have DirectX 10 hardware in their hands yet (that we know of), so they're not showing off real DX10 screenshots just yet. DX10 does add quite a bit to the picture, though. First, it's only available in Windows Vista, so it takes advantage of Vista's new driver model along with changes to the structure of the API (application program interface) itself to reduce the overhead when changing "states" in the graphics pipeline. That's a long-winded way of saying you can have more "stuff" in a scene: more rocks and grass, more random objects on an office desk, more accessories on the soldiers' bolts, more critters in a real-time strategy game-whatever.

DX10 also has new, more flexible standards for shaders. A geometry shader works on entire geometry primitives (lines or triangles) instead of single vertices. Developers can stream data from almost any part of the pipeline (vertex, geometry, or pixel shaders) and read it back in to other parts.

If that sounded like gibberish, the bottom line is that DirectX 10 is actually a pretty big evolution over DX9, but there's no one feature you could point to in a screenshot that screams "DX10"—it's not like it adds normal mapping or something. It's basically a bigger, more flexible toolbox with better consistency and less overhead for developers. Most of the guys we've spoken to about it are pretty excited.

Q: I've been trying to discover why I'm supposed to care about dual-core processors. After all, nearly nothing supports them. Can you run two virtual machines on the same PC and toggle between them? That would be nice if you have to keep business stuff up and running but want to switch to Call of Duty multiplayer for relief. Will Windows Viste support them with Hyper-Threading and what all? And a year from now, will most new apps and games have built-in support of dual-processor PCs? If this is the case, getting the dual-core CPUs out in the world is the egg that hatches the chicken down the road a bit. If not, then it appears we should be spending our bucks on faster single-core CPUs rather than dual-core parts.

Mark & Brenda Smith

A: Actually, there are already a few games that benefit from dual-core processors, though they're definitely rare. Virtualization (switching between two virtual machines) is possible, but you wouldn't want an entire other virtual PC taking up your valuable RAM and adding overhead while you're gaming. But dual-core CPUs have value outside just running games optimized for them. Windows XP already runs separate applications in separate threads, so the apps running in the background while you play a game will run on that second CPU core, keeping your game from slowing down as much. Vista, in theory, should be even better at this. There are some other applications, such as video transceders and decoders (DivX, Nero, and so on) that take advantage of dual-core CPUs, too.

Our advice: Every new CPU buyer should probably go dual-core. Future games will heavily support the processors, and in today's heavy multitasking environments, a dual-core CPU really helps keep things running smoothly. Besides, intel's new Core 2 Duo chips are the fastest gaming CPUs we've over tosted, regardless of what games wo've thrown at them (see Hard News, pg. 106).

Q: I currently own a 128MB GeForce FX 5900 XT and I'm looking to upgrade, but I'm on a budget. I've found some reasonably priced GeForce 7600s, but I'm not sure if I should pay the extra 30 or 40 dollars to get the GT over the GS. What's the difference, and is it worth 40 bucks?

Ryan Kok

A: The GeForce 7600 GT and GS are pretty good buys for a gamer on a budget. At the prices you mentioned, I would go with the more expensive, but faster, GT model. Specs vary a little bit from one manufacturer to the next, but generally it breaks down like this: The 7600 GS has a core clock speed of 400MHz, while the GT's is 560MHz—that's a 40 percent faster core clock speed. The 7600 GS has a 400MHz memory clock, while the GT's is 700MHz—that's 75 percent more memory bandwidth. So the GT model is going to be roughly 40 to 60 percent faster, depending on the game and the settings. That's worth the extra green,/

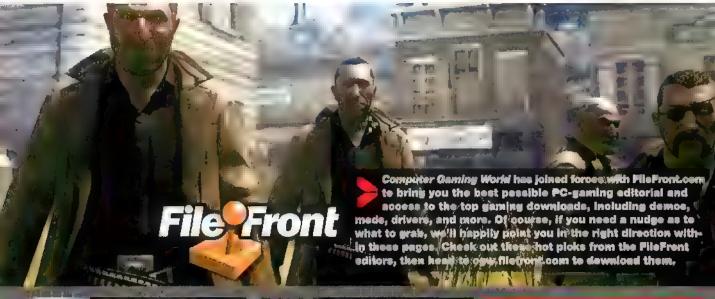
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SCHOOL OF COMPUTER ANIMATION > DIGITAL ARTS & DESIGN >

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LEGO STAR WARS II: THE ORIGINAL TRILOGY

trilingy for all low spin in this blacky, tongue in cheek game based on the Star Wars



CALL OF JUAREZ

addle up, strap on your



FACES OF WAR

Among an Bussian and

From friendly tutorials to flendishly difficult brainteasers, this game caters to all levels of puzzte fans.

Roll your way through a circuit of challenges: in Bilss Island as you blow through more than 90 levels of wacky, weird fun.

This update fixes a number of bugs and adds game improvements and features such as quick search and power ratings.

Sometimes imitation is the sincerest form of flattery. This Tetris clone comes complete. with 3D graphics and custom music.



DARK MESSIAH OF MIGHT AND MAGIC

Become a warrior, mage, or assassin and sample some mighty, magical adventures in the world of Ashan in this



GTR 2

arb Lehrod the wheel of one of two FIA GT class. cars and race against ponents at the Barcelona

This patch improves inventory placement and multiplayer performance, fixes a. memory leak, and addresses other bugs.

As the team behind this Battlefield 2 mod puts it, Surreal II "will definitely battle your imagination."

Grab the latest update for a host of community-requested features along with a new game mode, eight new maps, and \mathbf{a}_{a^*} killer new weapon...

This patch for the StarCraft expansion Brood War offers an extensive list of changes to enhance your RTSing.

This latest version fixes several bugs and greatly improves server performance. It also adds one new map and updatesseveral others.

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GAMING FOR DUMMIES

Who says games are too easy? One moron speaks out

AS A NOTED GAMING-INDUSTRY PUNDIT, AND ONE WHO CAN justly lay claim to the title "dean of the gaming press," It's my job to read a lot. Because when you read, you learn. And when you learn, you get smarter, And when you're smarter, you can serve your readers better by, like, knowing more stuff.

Just this morning, for example, before coming to work at CGW, I was reading my box of Frosted Flakes and learned that the cereal, according to noted mascot Tony the Tiger, can actually help your body grow stronger. Before I read that, I'd always believed my mom when she said it would rot my teeth out and make me get fat. Now I know sha was just a big liar.

Another thing I've learned by reading is that many gamers now think games are too easy. I read this on a number of different threads on some of the online message boards I frequent such as quartertothree.com, where civil and intelligent conversations among gamers occur, with nary en insult thrown amongst the participants, except for the occasional use of words like "douchebag" and "asswipe." And those are usually only directed at morons who don't know what they're talking about, so they therefore deserve whatever name I call them.

So, yeah. I think those asswipes are wrong-games are not getting too easy. If they were, then I might actually beat one for a change. What I think may be going on is not that games are getting easier, but rather, friendlier. Case in point: Prey (see CGW #266, pg. 84). Here's a game that, unlike nearly every other shooter before it, goes out of its way to ensure that you don't have to spend half your gaming time dying and reloading to your last save point. In this game, when you lose your last health point, you go to a netherworld for a few seconds-kind of like a dunce corner-where you momentarily get to ponder your loserdom before warping back into the game right where you left off. Any monsters that had been injured before you died are still just as injured as you left them.

Here's where the controversy is: According to certain online nimrods, this is not enough of a "penalty" for having died. In their world, I sucked, so now I should suffer. Maybe the monsters should get all their health back. Maybe I should have to restart the level. Maybe I should be forced to uninstall the game, parade through town naked with a bright red "I Suck at Games" tattoe branded on my rear and then jump off the Golden Gate Bridge. Anything but continue the game without paying a price.

Yeah, well, you know what? I did pay a price, \$49.99. And that means I'd like to play my game without anyone telling me it's not hard enough for me. The refreshing thing about Prey is that it lets me keep playing without artificially forcing me back to a loading screen-a gaming



convention that I'd be happy to never see again.

Frankly, forcing gamers back to an earlier state is just a somewhat bogus way of inflating a game's playtime. If I have to die first and reload the game to figure out how to beat a monster or get down a corridor, then I humbly submit that it's not me who sucks as a gamer, but you who sucks as a designer. By all means, I want a challenge, I want to have to use my brains and my reflexes to propel myself forward in your game. But I should be able to do this without your ending the game on me completely. Why not just give me a small penalty, as in Prey, and let me continue?

Yes, I know, Mr. Übergamer, You're a tough guy. You think the "normal" mode on most games is for wimps and n00bs. You can beat the hardest mode in every game in 30 minutes while standing on your head, blindfolded, and with both hands tied behind your back. Great. Call the circus. Perhaps the bearded lady will find you hot.

But if you think you represent the gamer norm, I have important news for you: You're a moron. Most gamers I know play in "easy" mode most of the time. And if they get stuck? They cheat. Because most people who play games just want a little fun and diversion. They're not staking their entire claims to manhood and self-worth on whether or not they took down the giant lizard the first time around. And, hey, if you're so great, you won't be dying anyway, right? So why should you care what the death mechanism is? Death only happens to people that suck.

And those of us who do suck? We're tired of dying. We want to live. We want to play on. So, I write this on behalf of the hundreds of thousands of long-suffering, constantly dead gamers who've spent far too many hours staring at their own bloodied, lifeless bodies, and offer one humble "thank you" to the designers of Prey and other games who make death a relatively painless experience. Our rearrimated corpses salute you.



Think Jeff is too easy? Send the nastiest e-mail you can think of to jeff_green@ziffdavis.com—and watch as he respawns instantly.

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